

# **Electric curtain tracks mMotion Plus**

**Electric curtain tracks – basic information (3)**

**Dimensions (22)**

**Installation (31)**

**Control (62)**

# Electric curtain tracks

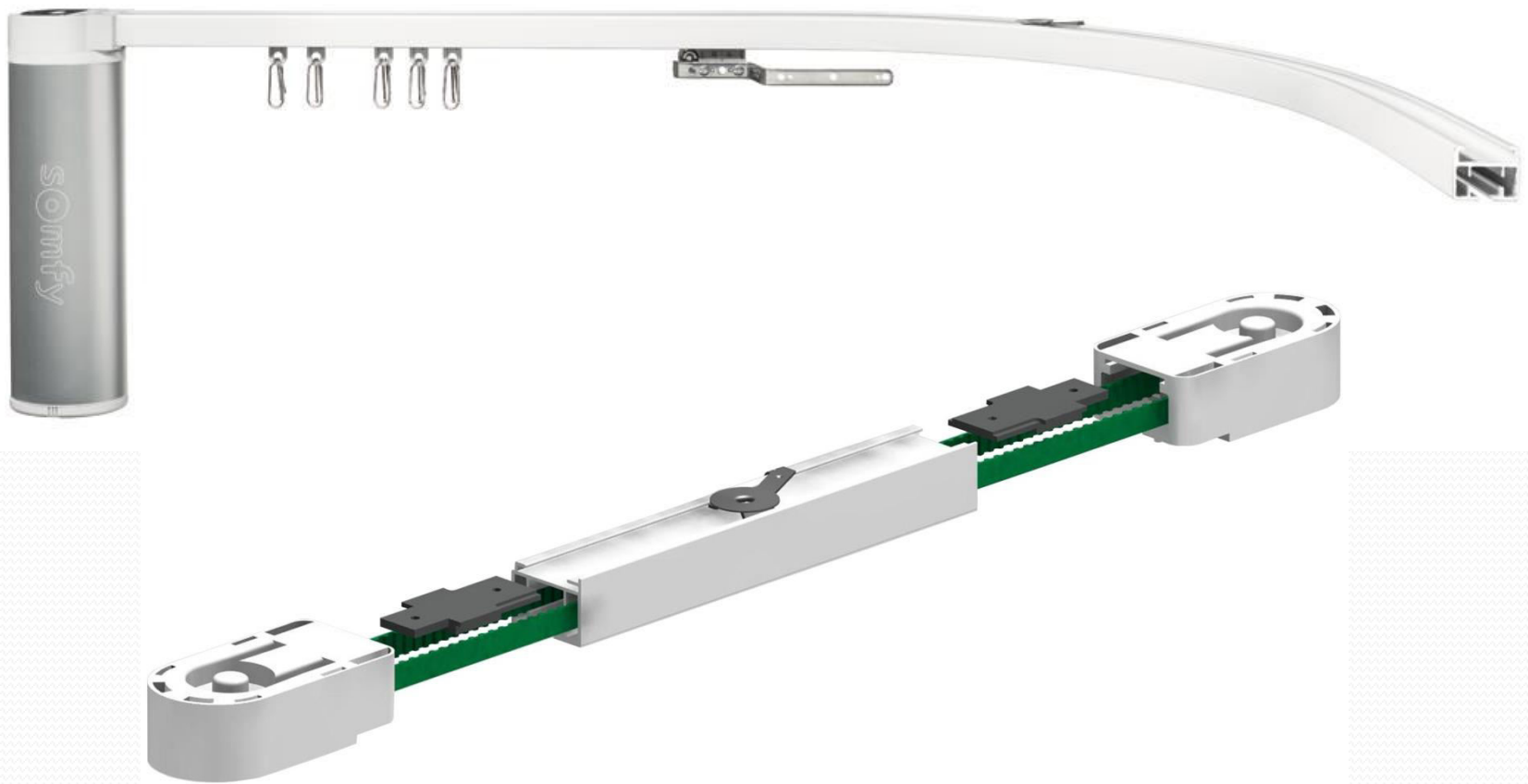


# Electric curtain tracks

## **Destination:**

- Private apartments
- Conference rooms
- Hotels
- Home cinema rooms
- Public buildings

# Design



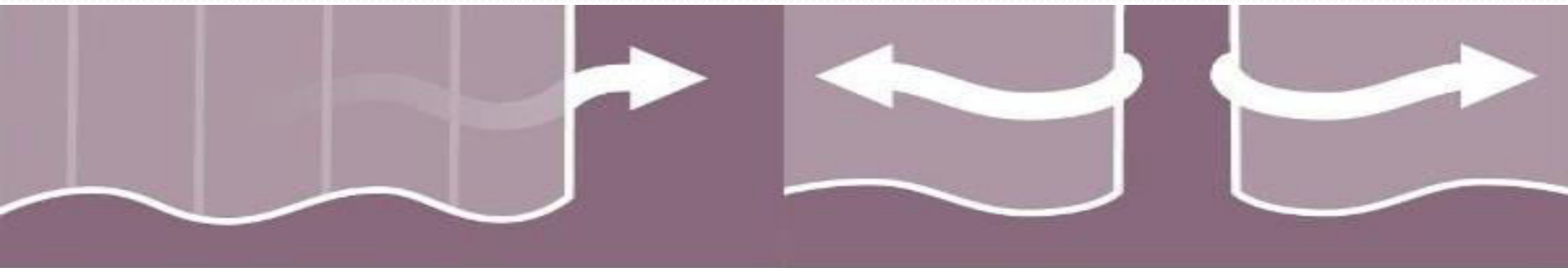
# Sliding curtains

## **SIDE OPENING**

- One motor,
- Curtain collects on the left or the right side of a track,
- One overlap arm.

## **CENTRE OPENING**

- One motor,
- Curtain collects at two sides,
- One overlap arm and one straight arm.



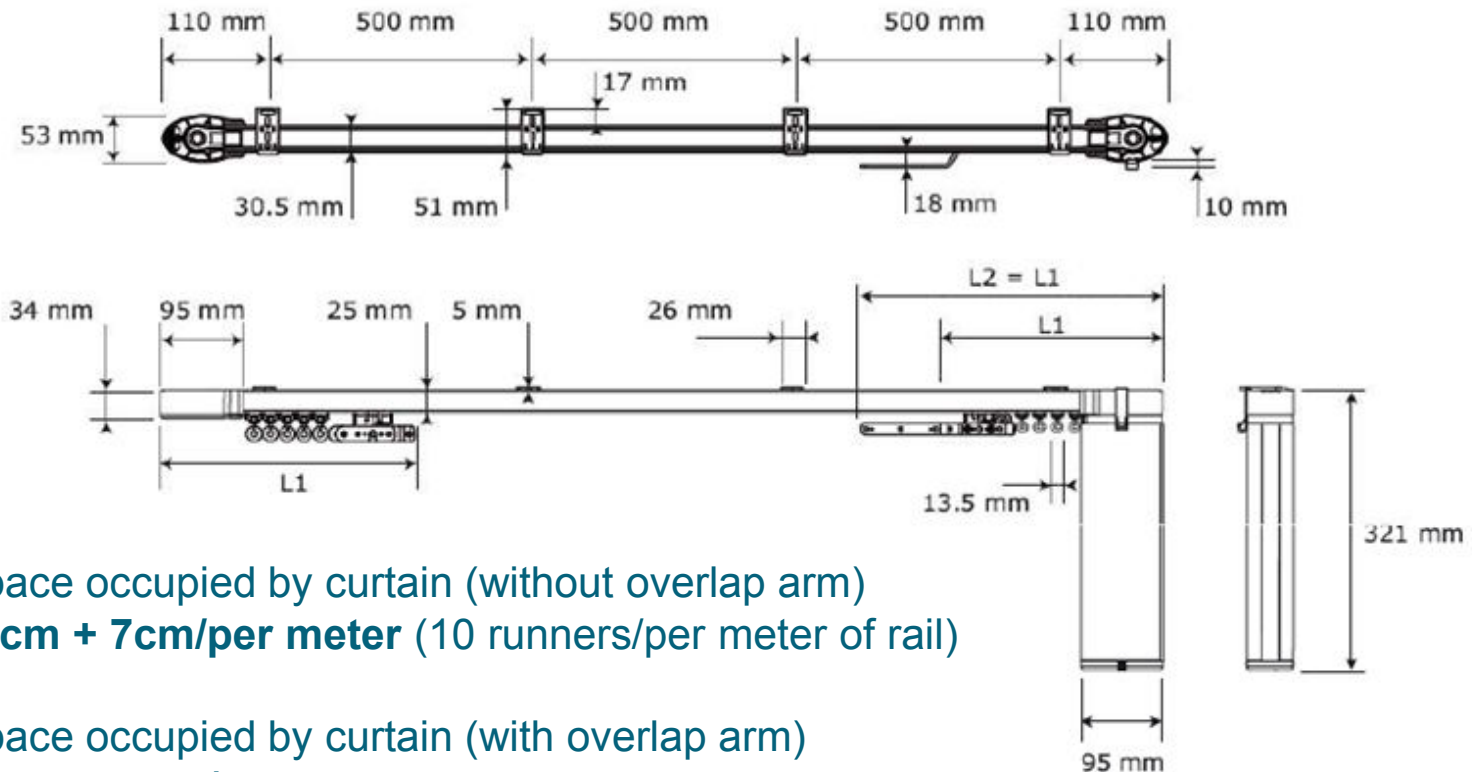
Technical drawings of a curtain runner assembly. The top drawing is a side view showing a runner with two end brackets and four intermediate rollers. Dimensions include 110 mm for bracket width, 500 mm for roller spacing, 17 mm for roller diameter, 53 mm for bracket height, 30.5 mm for bracket thickness, 51 mm for roller height, 18 mm for roller width, and 10 mm for bracket base. The bottom drawing is a front view showing the runner's profile with dimensions: 34 mm for bracket height, 95 mm for bracket width, 25 mm for roller height, 5 mm for roller width, 26 mm for roller diameter,  $L_2 = L_1$  for roller spacing,  $L_1$  for bracket width, 13.5 mm for roller width, and 321 mm for total height. A side view of the roller shows a height of 321 mm.

$L1 = 20\text{cm} + 14\text{cm/per meter (10 runners/per meter of rail)}$

L2 – space occupied by curtain (with overlap arm)

$$L2 = 27\text{cm} + 14\text{cm/m}$$

# Dimensions curtain rails (fold 150-200%) centre opening type



L1 – space occupied by curtain (without overlap arm)

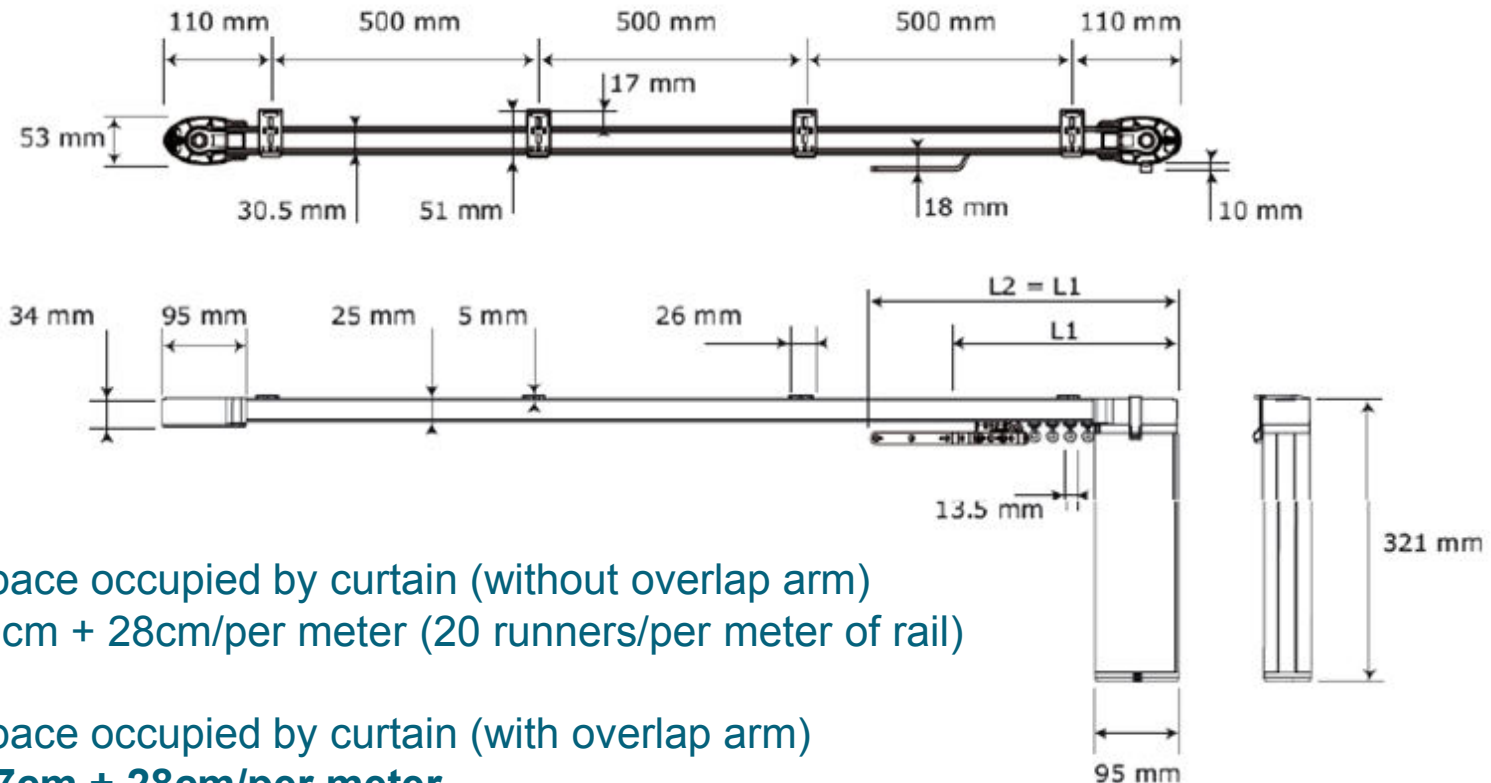
**L1 = 20cm + 7cm/per meter** (10 runners/per meter of rail)

L2 – space occupied by curtain (with overlap arm)

**L2 = 27cm + 7cm/per meter**



# Dimensions curtain rails (wave 150-250%) side opening type



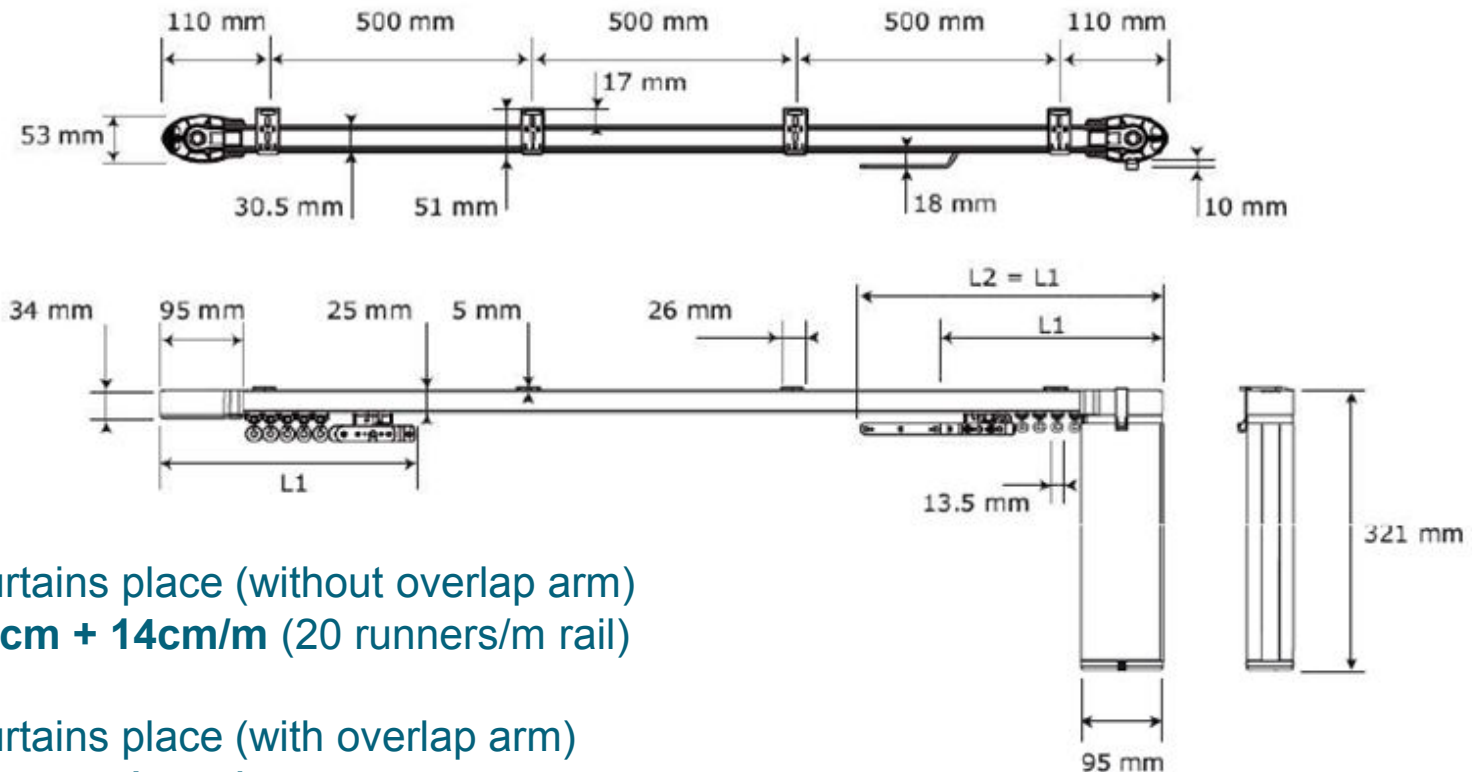
L1 – space occupied by curtain (without overlap arm)

$L1 = 20\text{cm} + 28\text{cm}/\text{per meter}$  (20 runners/per meter of rail)

L2 – space occupied by curtain (with overlap arm)

**$L2 = 27\text{cm} + 28\text{cm}/\text{per meter}$**

# Dimensions curtain rails (wave 150-250%) centre opening type



L1 – curtains place (without overlap arm)

**L1 = 20cm + 14cm/m** (20 runners/m rail)

L2 – curtains place (with overlap arm)

**L2 = 27cm + 14cm/m**

# Installation

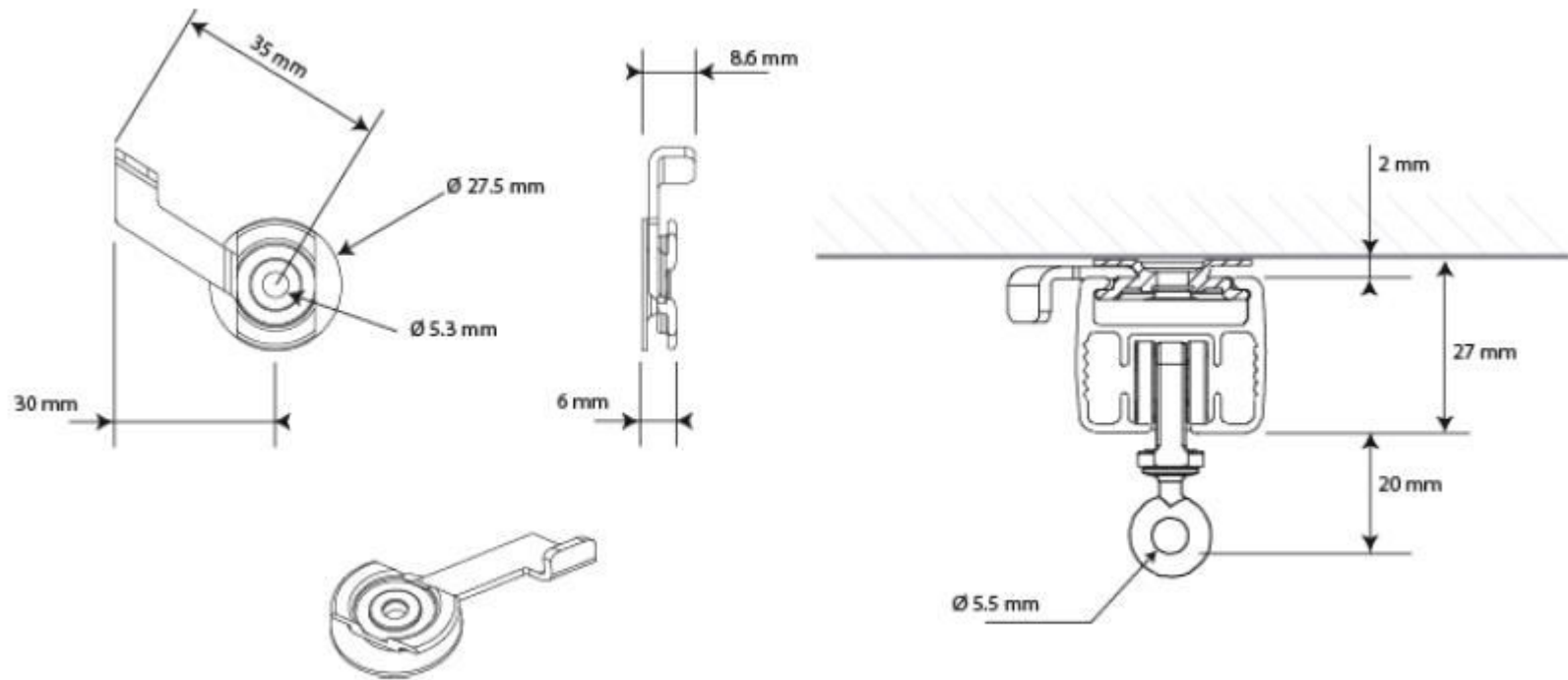
## CEILING

- Universal swivel bracket (1,5pcs./m+1pc.),

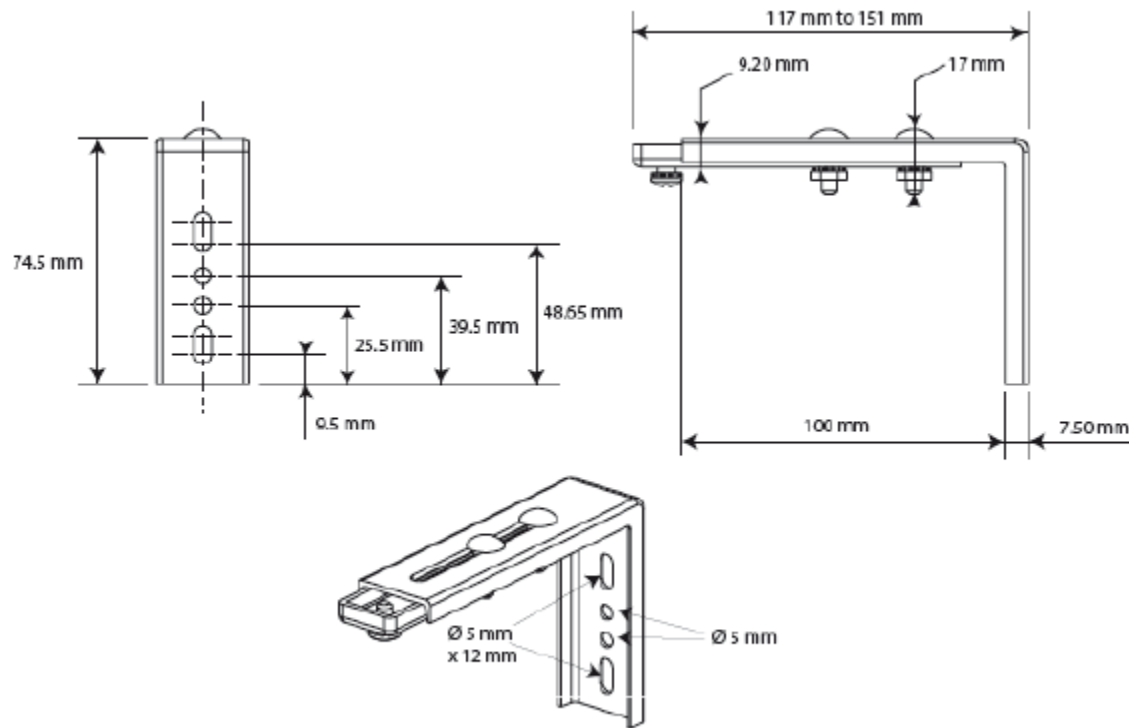
## WALL

- Universal swivel bracket (1,5pcs./m+1pc.) with single or double wall brackets,
- Allows the single/double track to be installed on a single element.

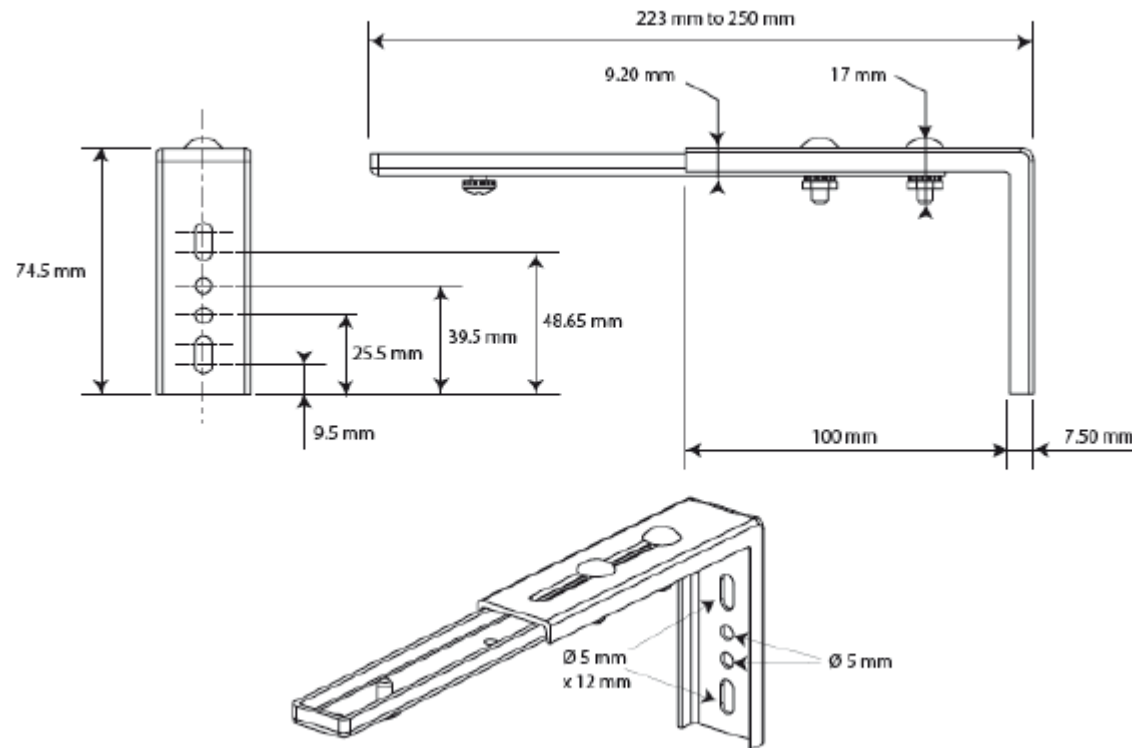
# Ceiling bracket



# Single wall bracket











# Double wall bracket



# Choice of motor

Maksymalne obciążenie w kg / Maximum load [kg]

	mMotion Plus 35			mMotion Plus 60e			Irisimo 35		
	3m	6m	12m	3m	6m	12m	3m	6m	12m
	35	35	35	60	60	55	35	35	35
	35	35	35	60	60	55	35	35	35
	35	25	20	45	45	35	35	25	20
	35	25	20	45	45	35	35	25	20
	15	10	-	35	25	-			
	15	10	-	35	25	-			
	35*	15*	-	35*	25*	-			
	30*	10*	-	30*	20*	-			

Możliwości gięcia z szyn  
Possibility of bending rails



# Choice of motor

	mMotion 35	mMotion 60e	Irismo 35
Wyprodukowane przez / <i>Produced by</i>	Somfy	Somfy	Somfy
Napięcie zasilania / <i>Voltage and frequency range</i>	90-250V AC 50/60 Hz	90-250V AC 50/60 Hz	90-250V AC 50/60 Hz
Modele / <i>Models</i>	DCT or WT	DCT or WT	DCT, RTS or WT
Stopień ochrony / <i>Protection index</i>	IP30	IP30	IP30
Maksymalny pobór prądu / <i>Maximum current</i>	0,3A (240V)	0,4A (240V)	0,3A (240V)
Typ przewodu zasilającego / <i>Power cable type</i>	H05 VVF	H05 VVF	H05 VVF
Średnica przewodu / <i>Power cable wire section</i>	1mm <sup>2</sup>	1mm <sup>2</sup>	0,75mm <sup>2</sup>
Zakres temperatury pracy / <i>Working temperature</i>	0 - 60 st. C	0 - 60 st. C	0 - 60 st. C
Ruch przez pociągnięcie <i>Touch motion</i>	Tak w modelach DCT i RTS <i>Yes in models DCT and RTS</i>	Tak w modelach DCT i RTS <i>Yes in models DCT and RTS</i>	Nie / <i>No</i>
Obsługa ręczna / <i>Manual operation</i>	Tak / <i>Yes</i>	Tak / <i>Yes</i>	Tak / <i>Yes</i>
Maksymalny czas pracy w jednym kierunku <i>Maximum runningtime in one direction</i>	2min 30s	2min 30s	2min 30s
Soft start	Tak / <i>Yes</i>	Tak / <i>Yes</i>	Tak / <i>Yes</i>
Soft stop	Tak / <i>Yes</i>	Tak / <i>Yes</i>	Nie / <i>No</i>
Poziom hałasu (mocy) / <i>Noise lever (power)</i>	34-42 db(A)	34-42 db(A)	<51 db(A)
Prędkość / <i>Speed</i>	12,5/15/17,5/20 cm/s regulowana / <i>adjustable</i>	12,5/15/17,5/20 cm/s regulowana / <i>adjustable</i>	15cm/s
Certyfikaty / <i>Certificates</i>	CCC, CE, TUV GS, CTick, SASO	CCC, CE, TUV GS, CTick, SASO	CCC, CE, TUV GS, CTick, SASO, TMARK



# Control

Motor WT – four-wire cable (2 control wire)

Motor DCT – three-wire cable

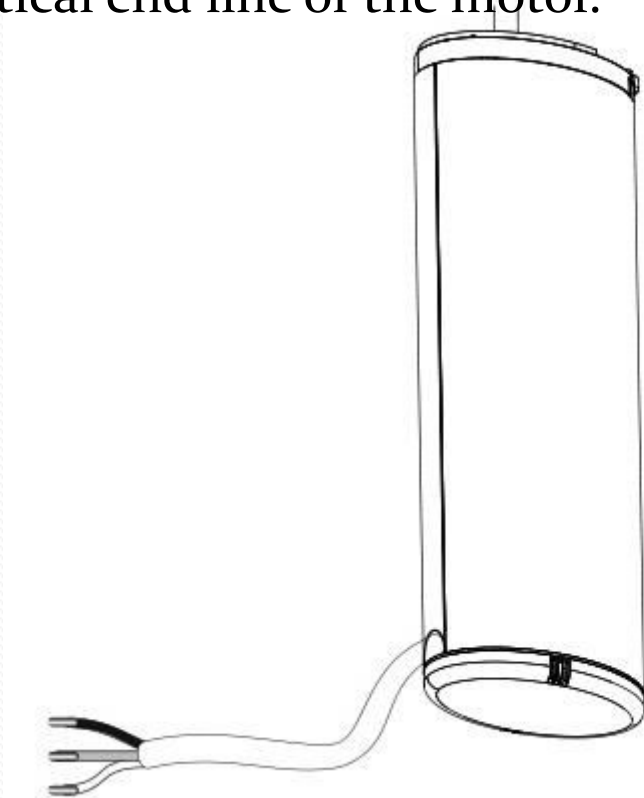
- wire control 230V (WT),
- infrared (DCT),
- radio Somfy RTS (DCT),
- dry contact by RJ slot (DCT),
- smart home system (DCT lub WT)

# Usage limitations

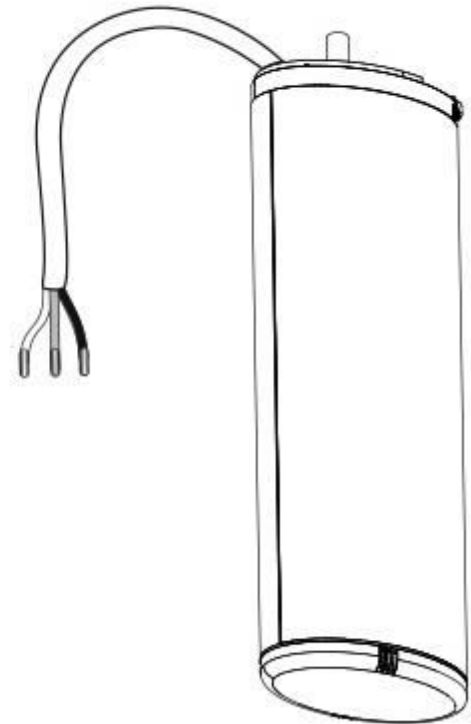
- Max length of curtain rail in one part **7,10 m.**
- Max length of connected curtain rail **18,0 m.**
- Max weight of curtains **60 kg (for mMotion 60e).**
- Radius (90 degrees) **35 cm.**
- Manual override of curtains available at any moment.

# Voltage delivery

**Wall** – 32 cm down from upper edge of rail (ceiling) and on the vertical end line of the motor.



**Ceiling** – 1 cm to the centre of the motor (a wire goes through a hole in the pulley).



# Motor installation

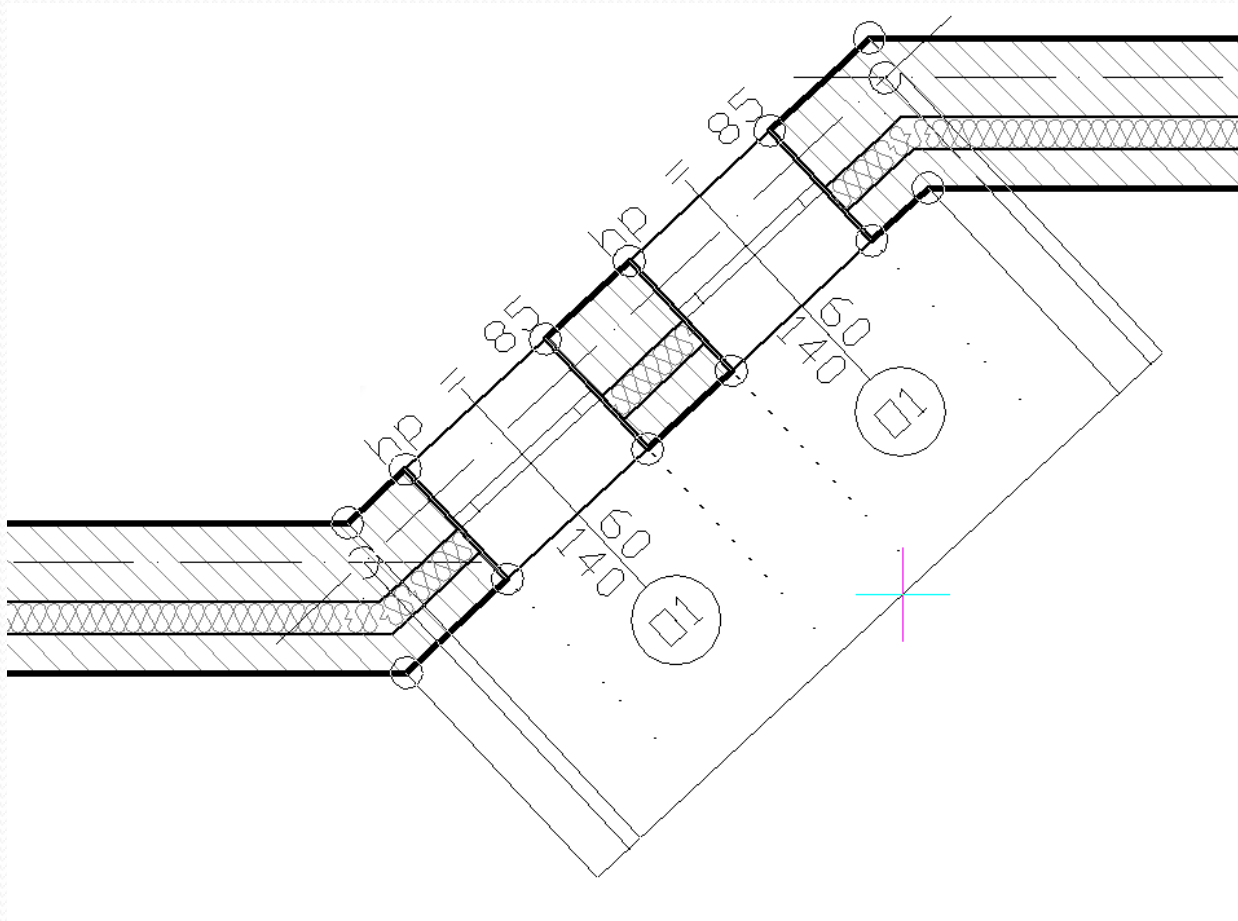
**Standard** – the motor is installed to bottom side of the rail.

**Inverse (top mount)** – the motor is installed above the track (available hiding in the ceiling).





# Dimensions

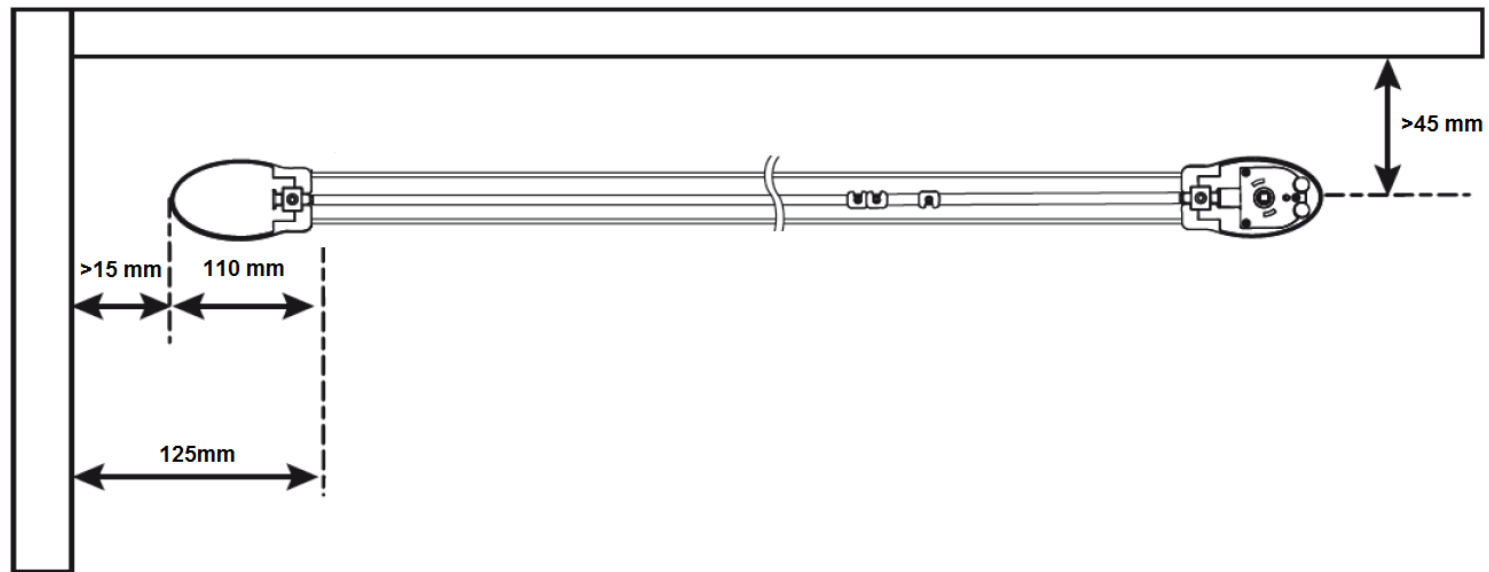


# Dimensions

**Make sure that your order contains:**

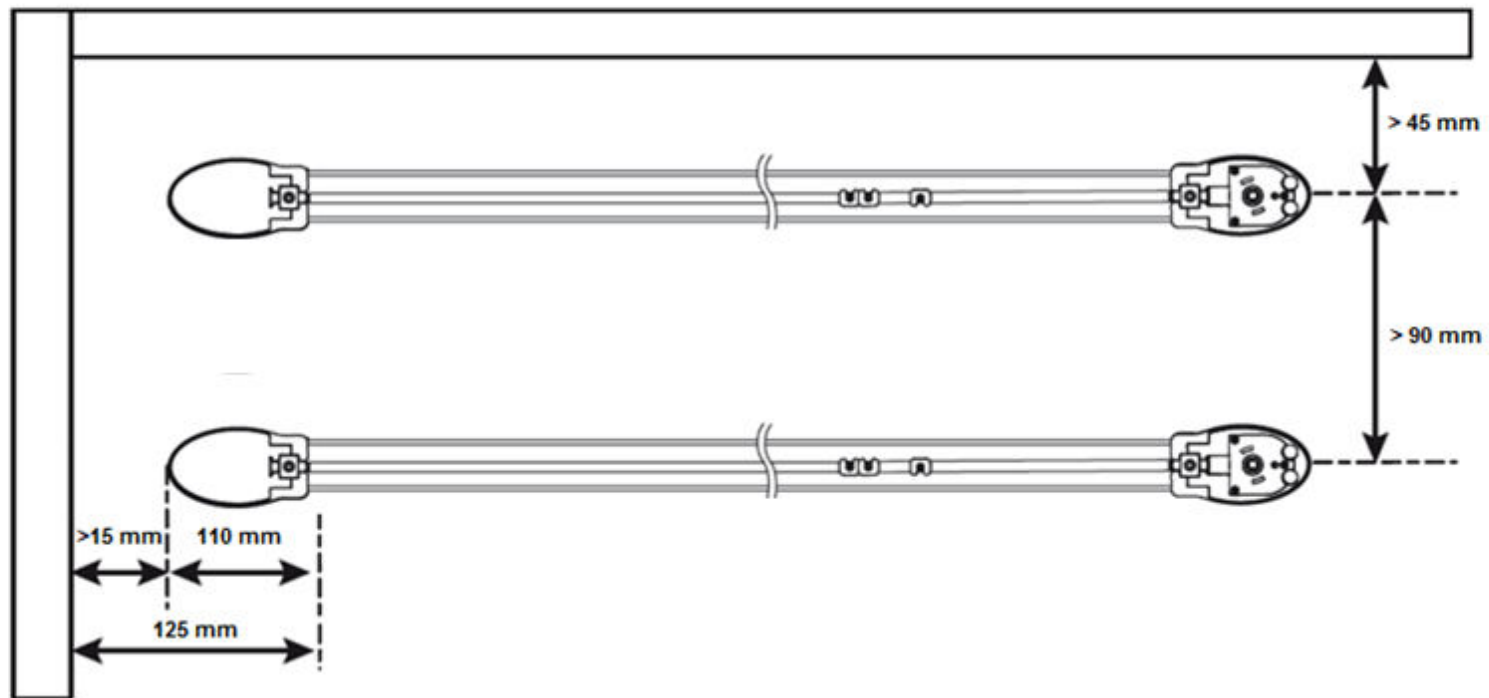
- the length,
- the opening type (side/central opening track),
- the motor type (35/60/Irisimo),
- the control type,
- the installation and setting features (classic/inverse),
- the set of rail junctions or delivery in one part (more than 2,65 meters),
- additional comments.

# Window bay for a single rail





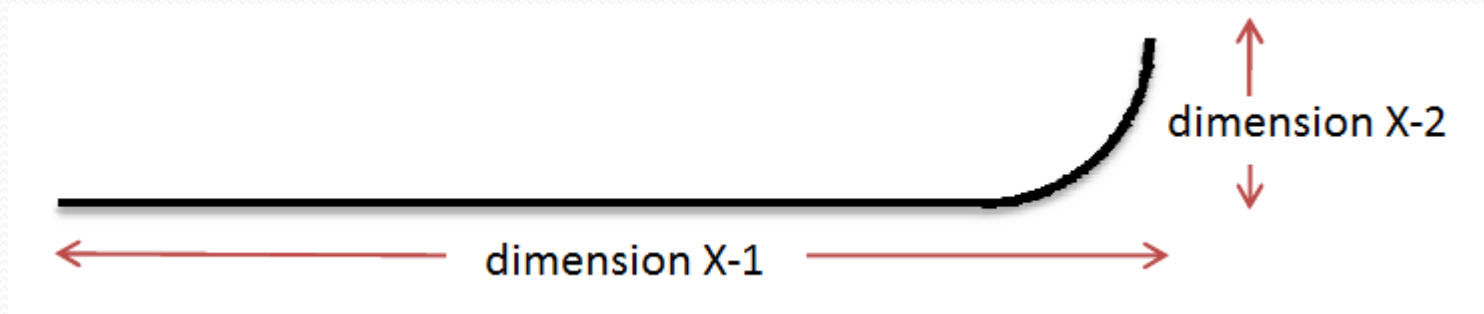
# Window bay for a double rail



# Bended rails dimensions

## Dimensioning of bended rails (arc up to 90 degrees)

Please, specify 2 dimensions in your order:



Bending radius from 30 to 35 cm.

# Bended rails dimensions

## **Dimensioning of bended rails with larger radius (non-standard)**

A template in 1:1 scale should be prepared to enable the user to set the probe in correct position. A template should be delivered to the place of establishment of the producer.

It is also possible to make a longer rail to adjust on your own in the installation place.

# Bended rails dimensions

In case of bended rail – a distance between the centre of a rail to the nearest obstacle - **10 cm for single** and **20 cm for double** curtain rail is required.

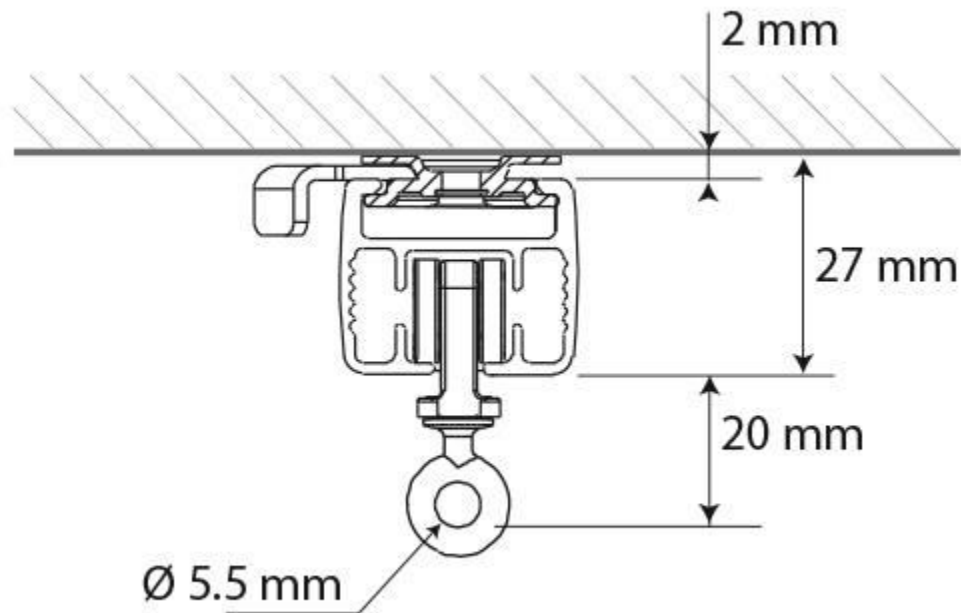


# Rails dimensions

Curtains should not overlap the window, when they are on both sides.

Curtain opening type should take into account a configuration of furniture and furnishing articles in the room.

# Dimensioning curtain height



# Installation





# Before installation

Electric curtain rails with a length more than 265 cm can be delivered in few parts to assemble on the installation place.

Before assembling the product, prepare a clean workplace. If components get dirty, the trouble-free usage can be disturbed.

Please, follow the instructions attached to the product during the installation.



# Components



Rail



Belt reel



Drive pulley



Heavy duty  
master carrier



Heavy duty  
Overlap arm kit



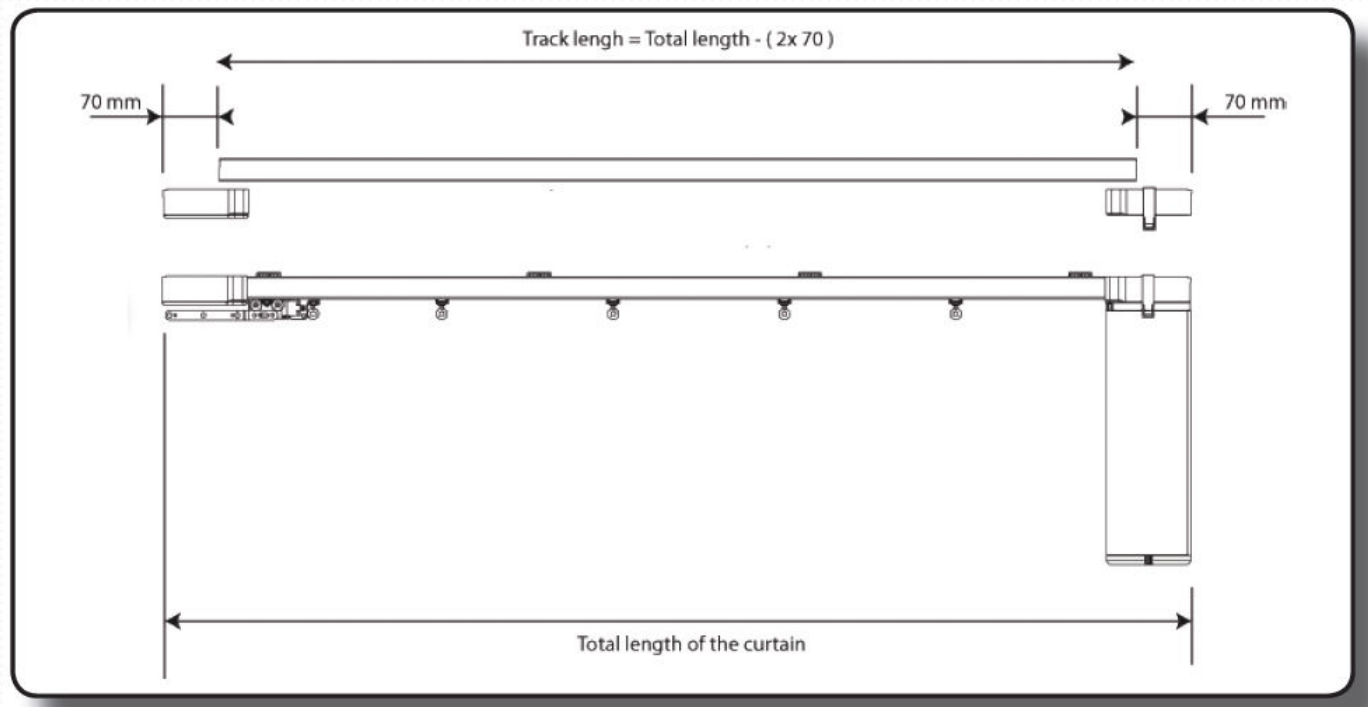
Hight performance  
Rotating eye runner



Motor hook

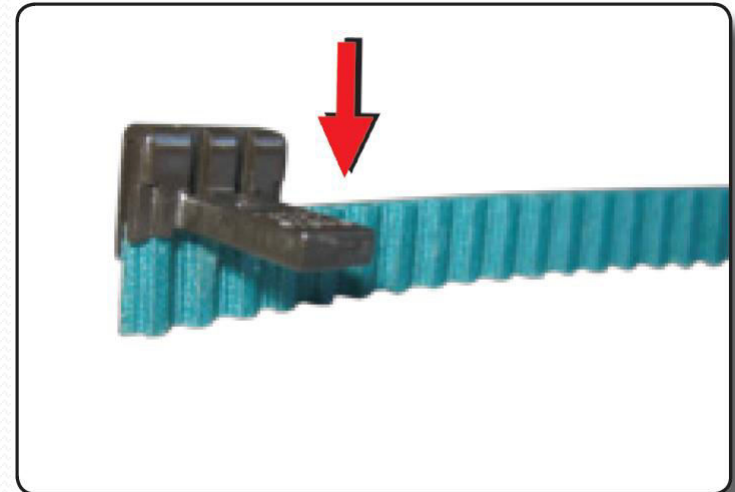
# Manual assemble

1. Rail cut (**only when the rails is shortening**).  
Rail width = final width – 14cm

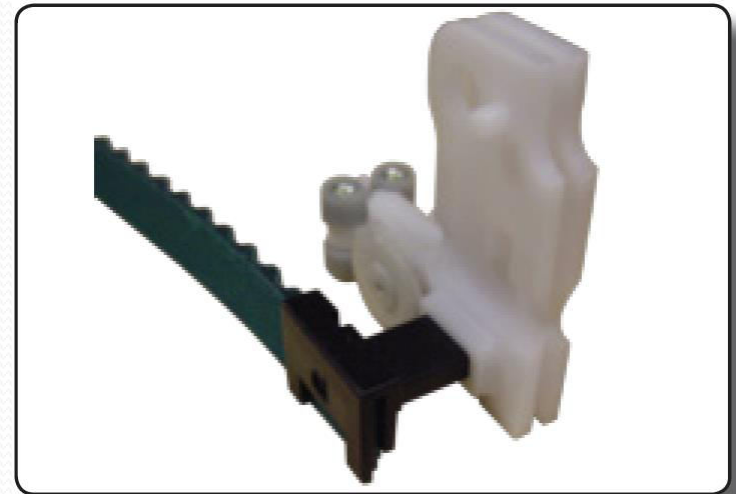


# Manual assembly

2. Place the belt holder.

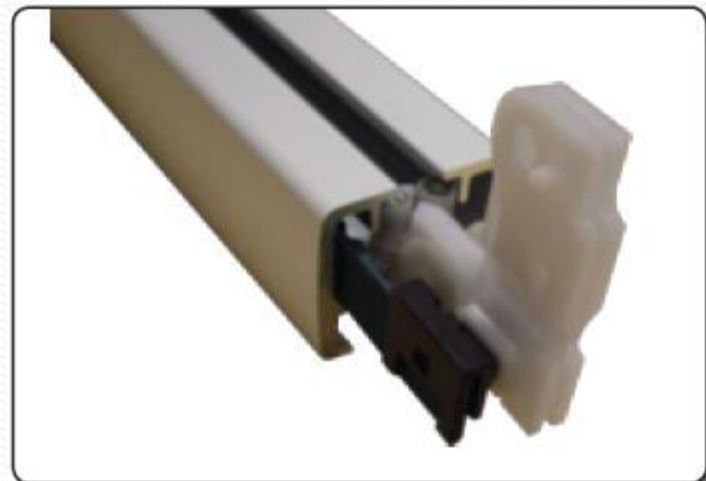


3. Place the master carrier.



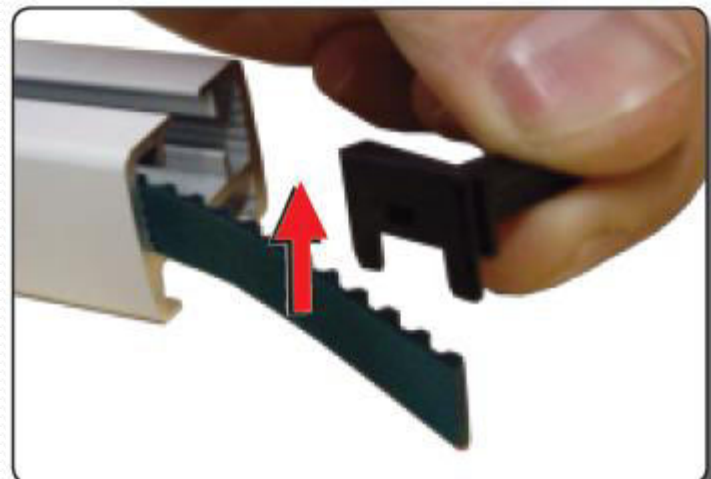
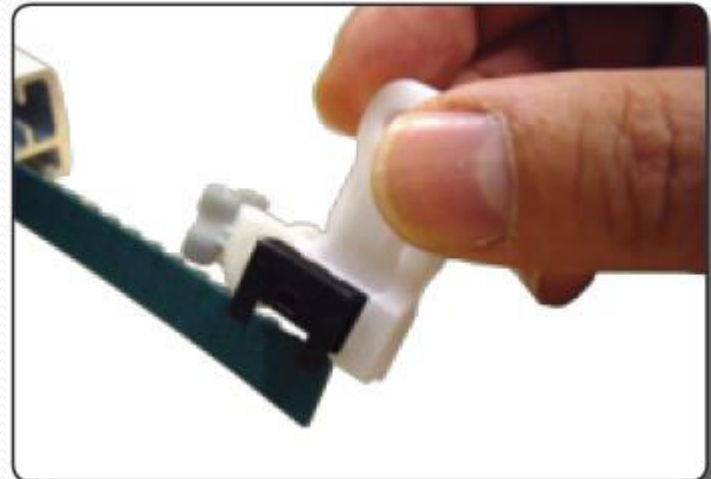
# Manual assemble

4. Slide the master carrier into the rail and pull it through the rail.



# Manual assemble

5. Remove the master carrier and belt holder.



# Manual assembly

6. Unscrew the stoppers on both pulleys.



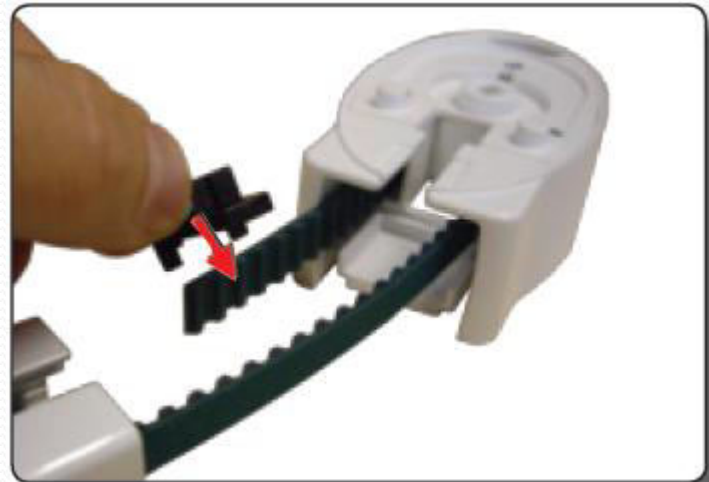
# Manual assembly

7. Slide the belt through the pulley.



# Manual assembly

8. Place the belt holder and snap it.



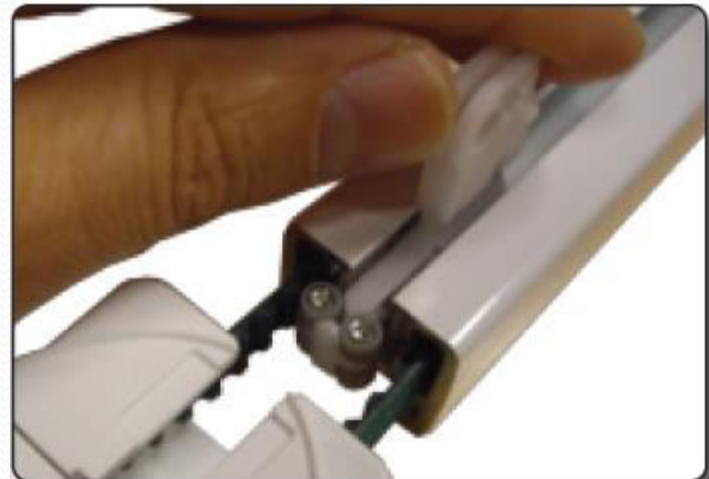


# Manual assemble

9. Place the master carrier.



10. Slide the master carrier into the rail and pull it through the rail.



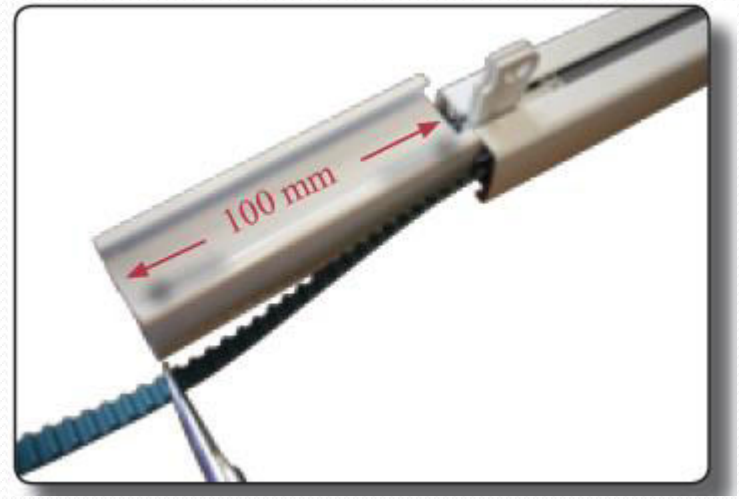
# Manual assembly

11. Fit the pulley onto the rail.



# Manual assemble

12. Cut the belt.  
20 tooth (100 mm) must be outside the rail and half master carrier must be on the edge of the rail.



**(only when the rails is shortening)**

# Centre opening – manual assemble

THESE INSTRUCTIONS ARE ONLY FOR CENTRE OPENING RAIL TYPE.

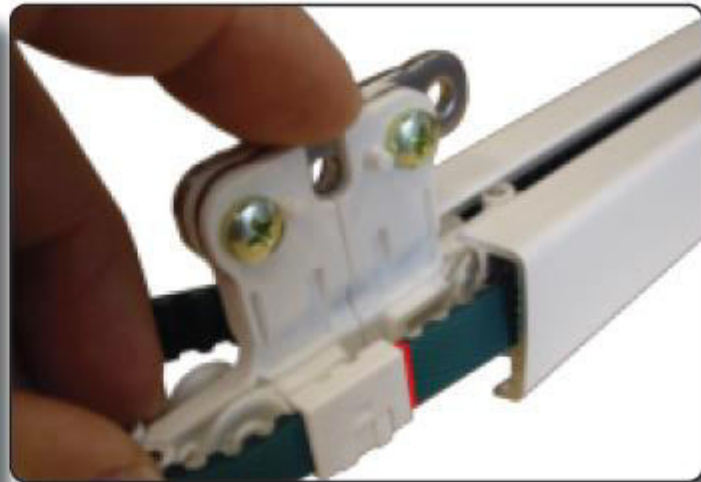
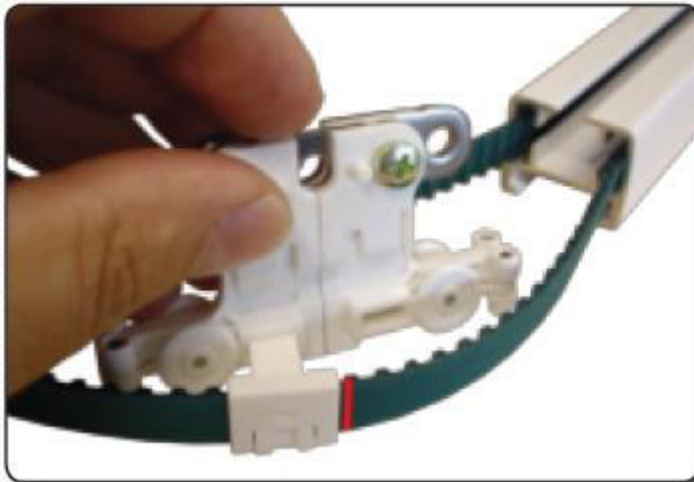
12-1. Pull out the opposite pulley.



# Centre opening – manual assemble

THESE INSTRUCTIONS ARE ONLY FOR CENTRE OPENING RAIL TYPE.

12-2. Select location for master carrier. Place belt holder and snap it. Place the master carrier and slide it into the rail.



# Centre opening – manual assemble

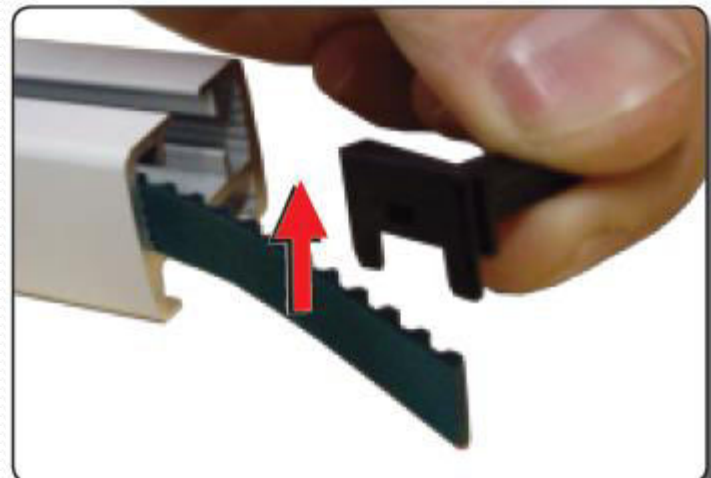
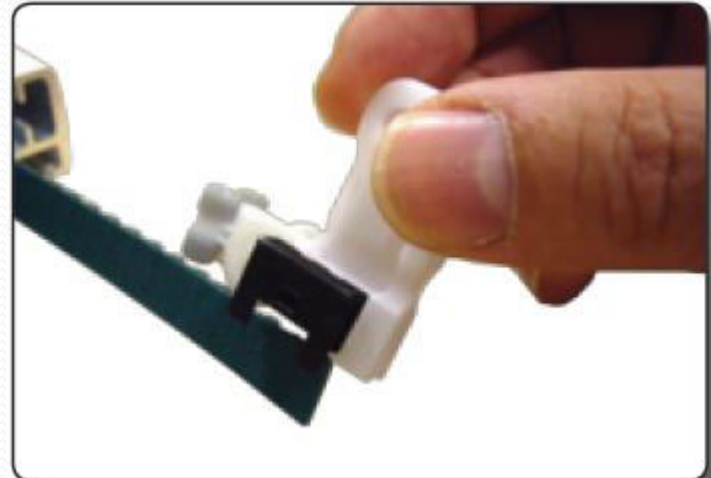
THESE INSTRUCTIONS ARE ONLY FOR CENTRE OPENING  
RAIL TYPE.

12-3. Fit the pulley onto the rail.



# Manual assemble

13. Remove the master carrier and belt holder.



# Manual assemble

14. Slide the belt through the pulley.





# Manual assemble

15. Place the belt holder and snap it.

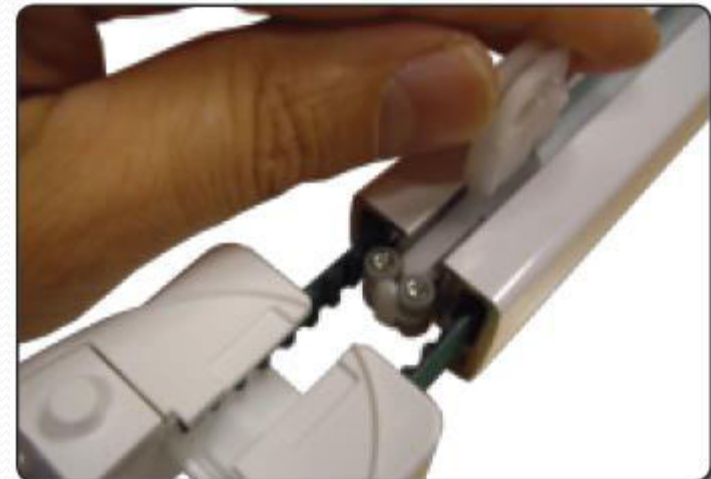


# Manual assemble

16. Place the master carrier.

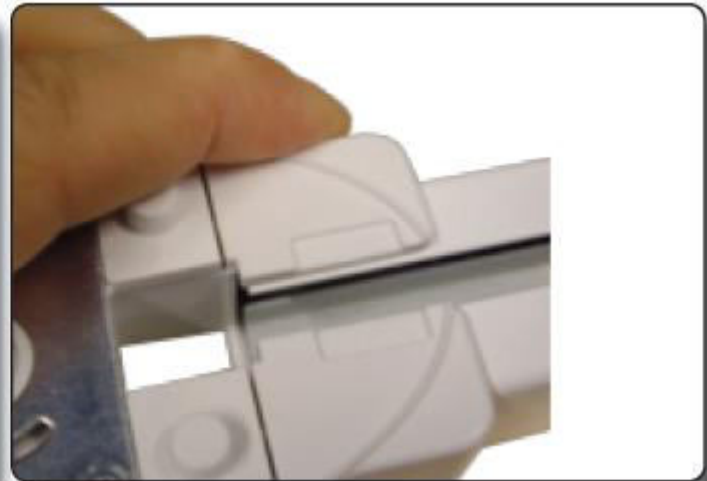


17. Slide the master carrier into the rail.



# Manual assemble

18. Fit the pulley onto the rail.



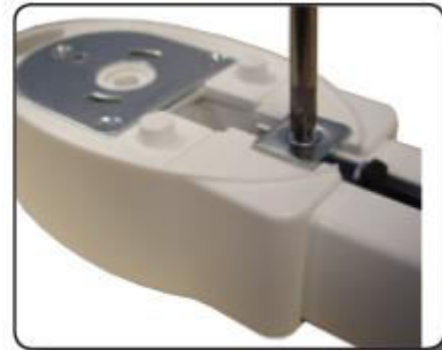
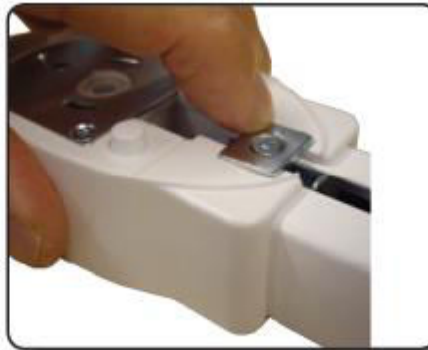
# Manual assembly

19. Insert runners.



# Manual assembly

20. Place the drive pulley stoppers.



# Manual assemble

21. Screw the overlap arm.



# Manual assemble

22. Snap the cover on the pulley.



# Manual assemble

Final efect.







# Installation

Incorrect installation can cause injury. Strictly follow the instructions for an assembly and a manual drive.

In order to reduce the risk of electric shock, this device must be properly grounded.



# Installation

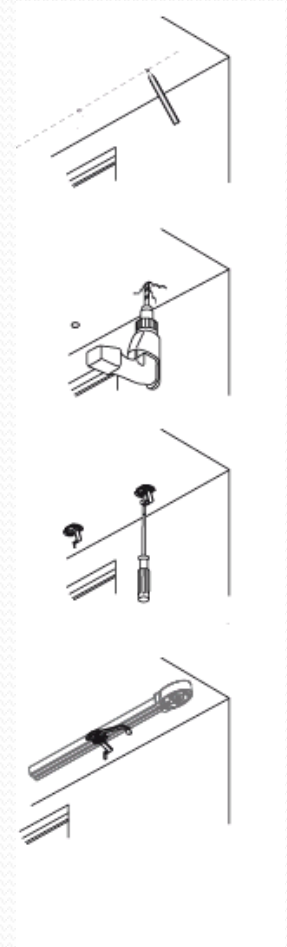
Please make sure that the switches are compatible with the selected motor.

The control devices must be installed in a visible place.

If the drive or power wire is damaged, then return unit to service department in order to avoid possible risks.

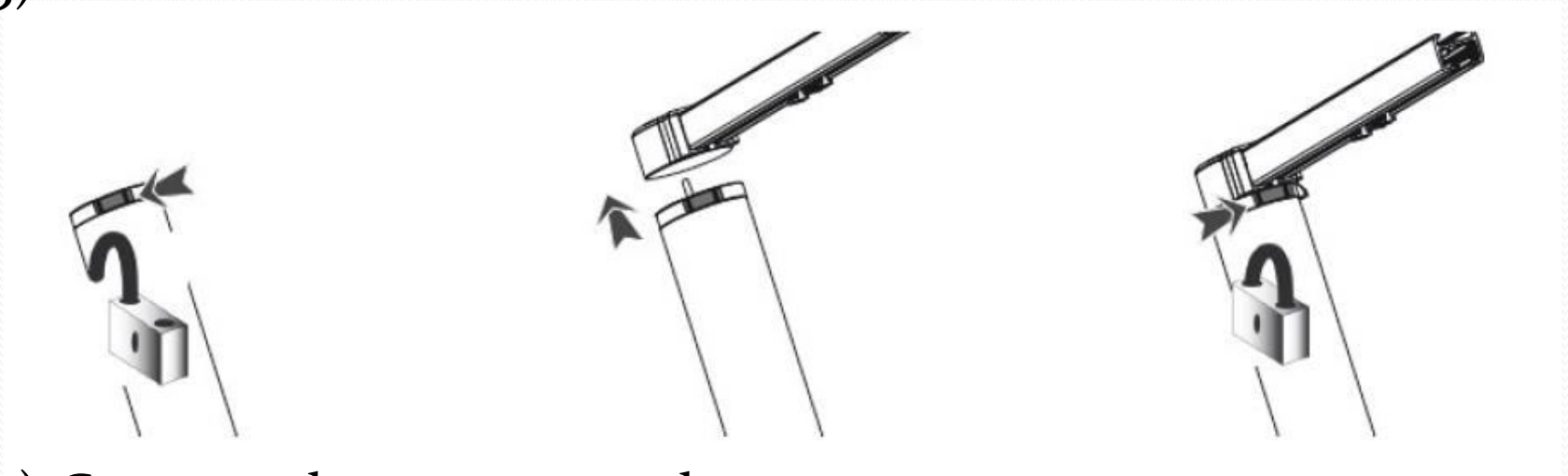
# Installation

- 1) Mark the position of the brackets.
- 2) Drill holes.
- 3) Attach the bracket to the right place at the ceiling / on the wall.
- 4) Insert the hook for hanging the curtains on the motor (on the pulley).
- 5) Fasten the rail in mount.
- 6) Attach the motor to the rail.



# Installation

- 1) Unlock the motor.
- 2) Put the motor to the hole in pulley.
- 3) Lock the motor.



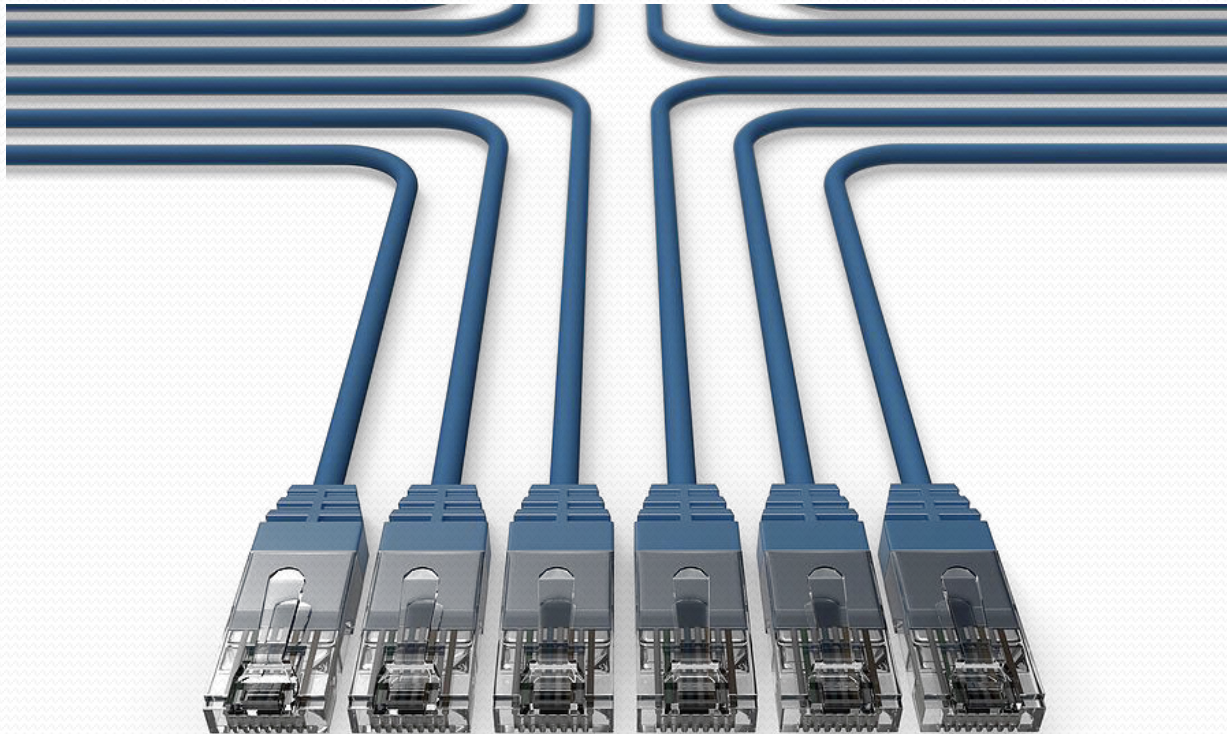
- 4) Connect the power supply.

# Use

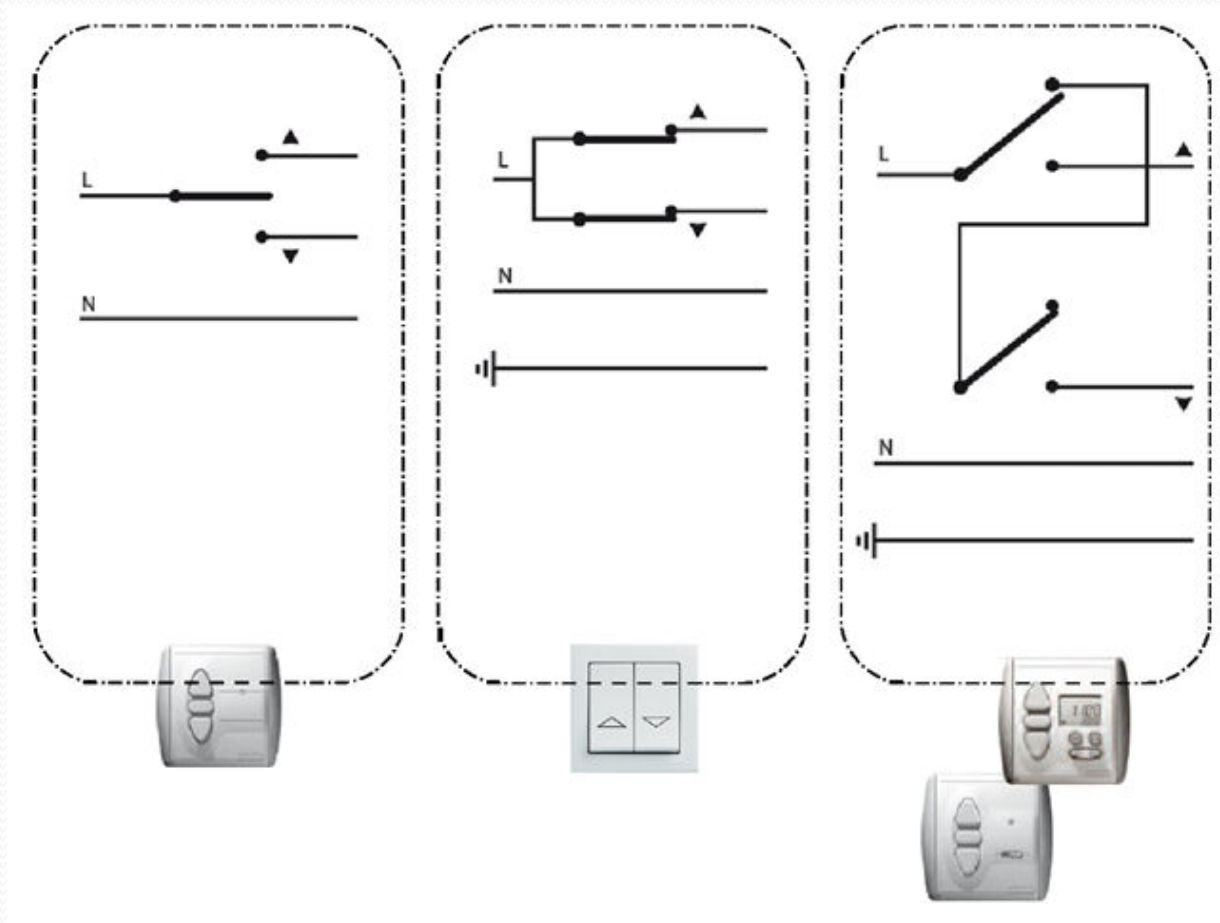
Disconnect the motor from the power supply during cleaning.

Children should be supervised to ensure that they do not play with the curtain rail.

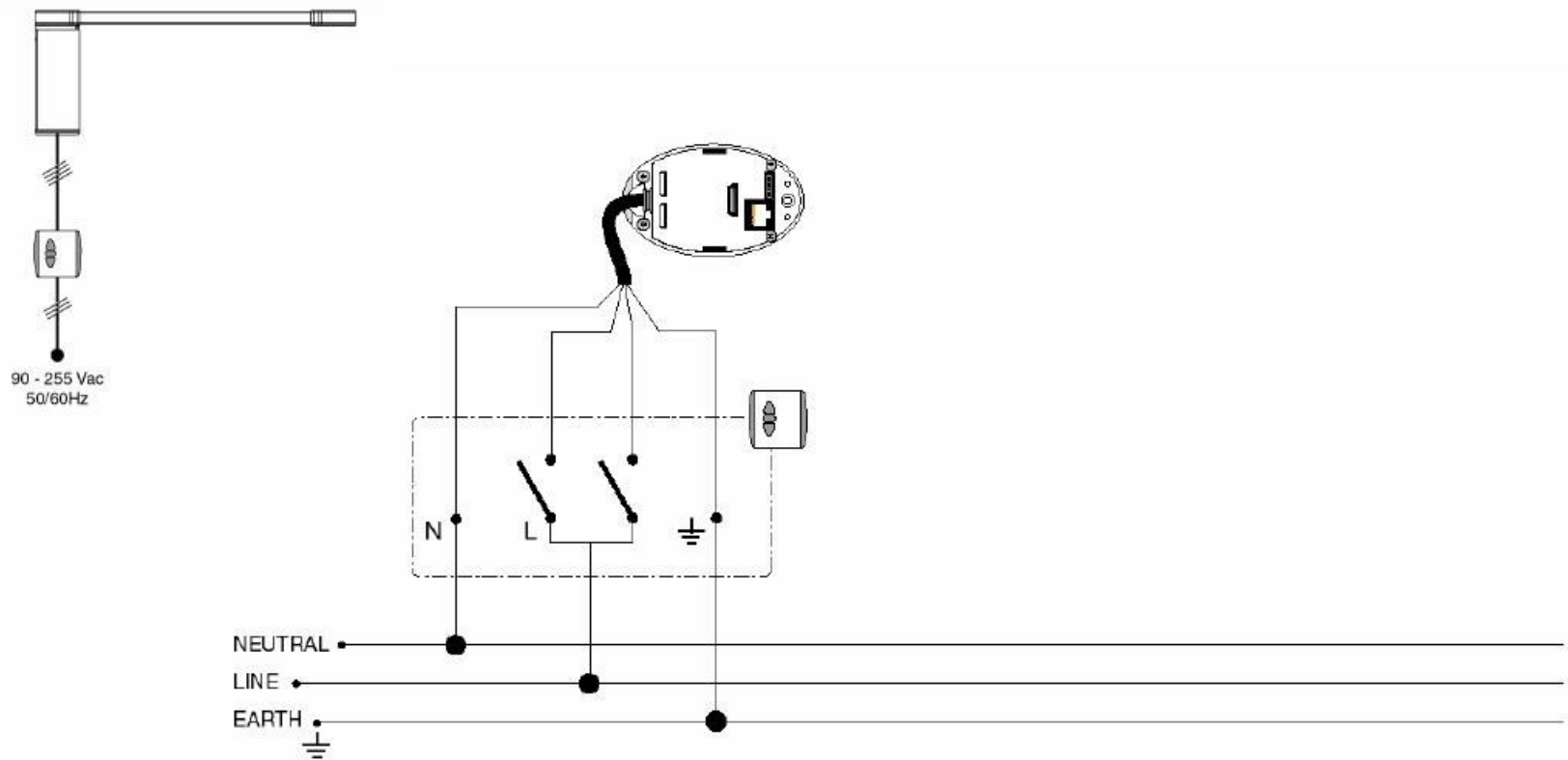
# Control



# Wire control 230V

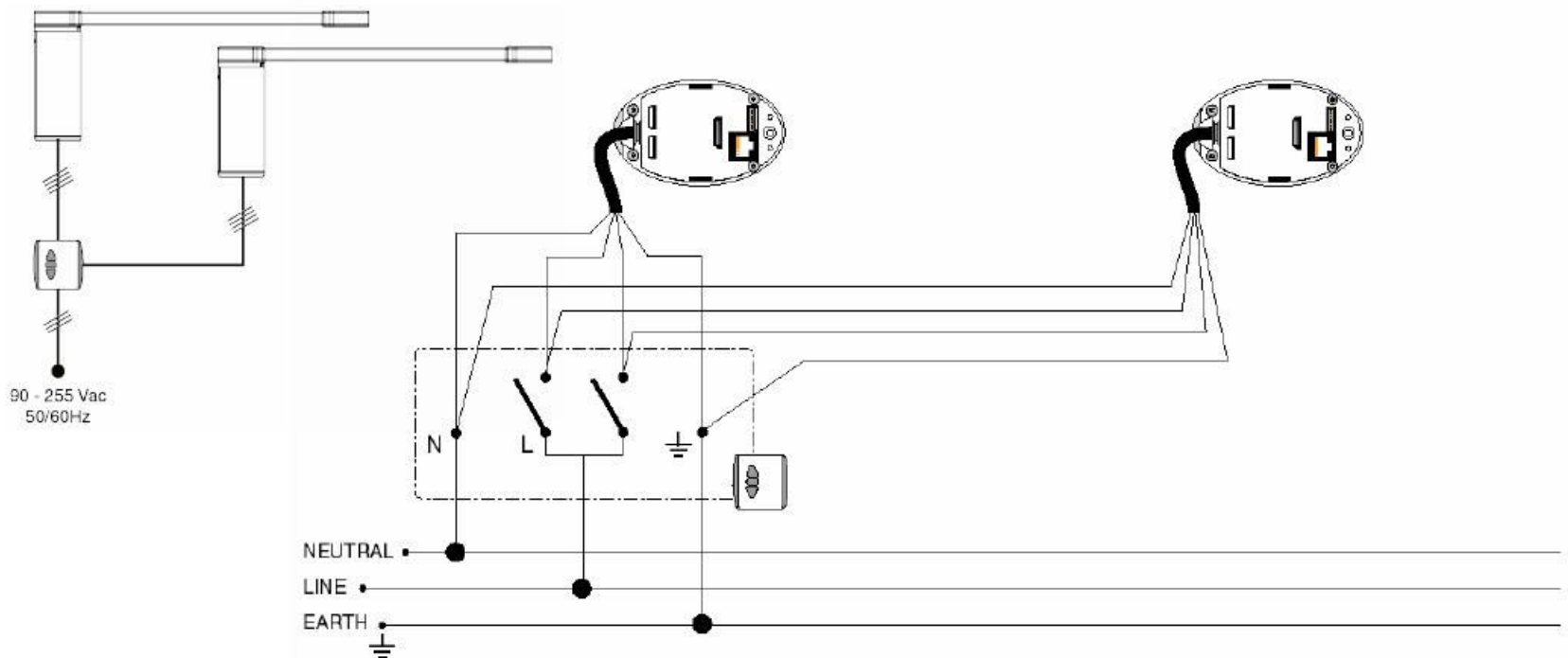


# Individual control 230V switch (WT)





# Group control 230V switch (WT)

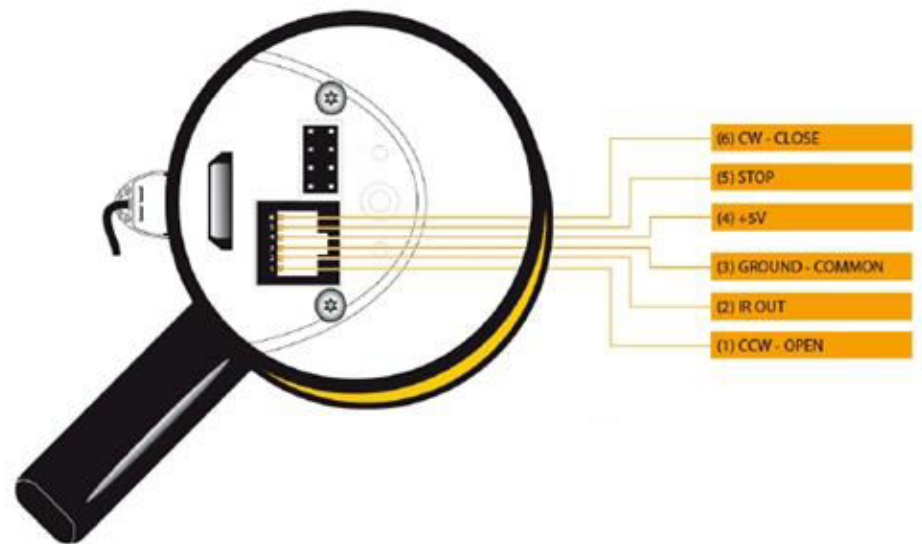


# Dry contact

mMotion Plus DCT is control through dry contact switch, infrared and radio RTS (additional RTS receiver).

Pins: dry contact or infrared are in RJ12 socket.

# Dry contact (RJ 12)



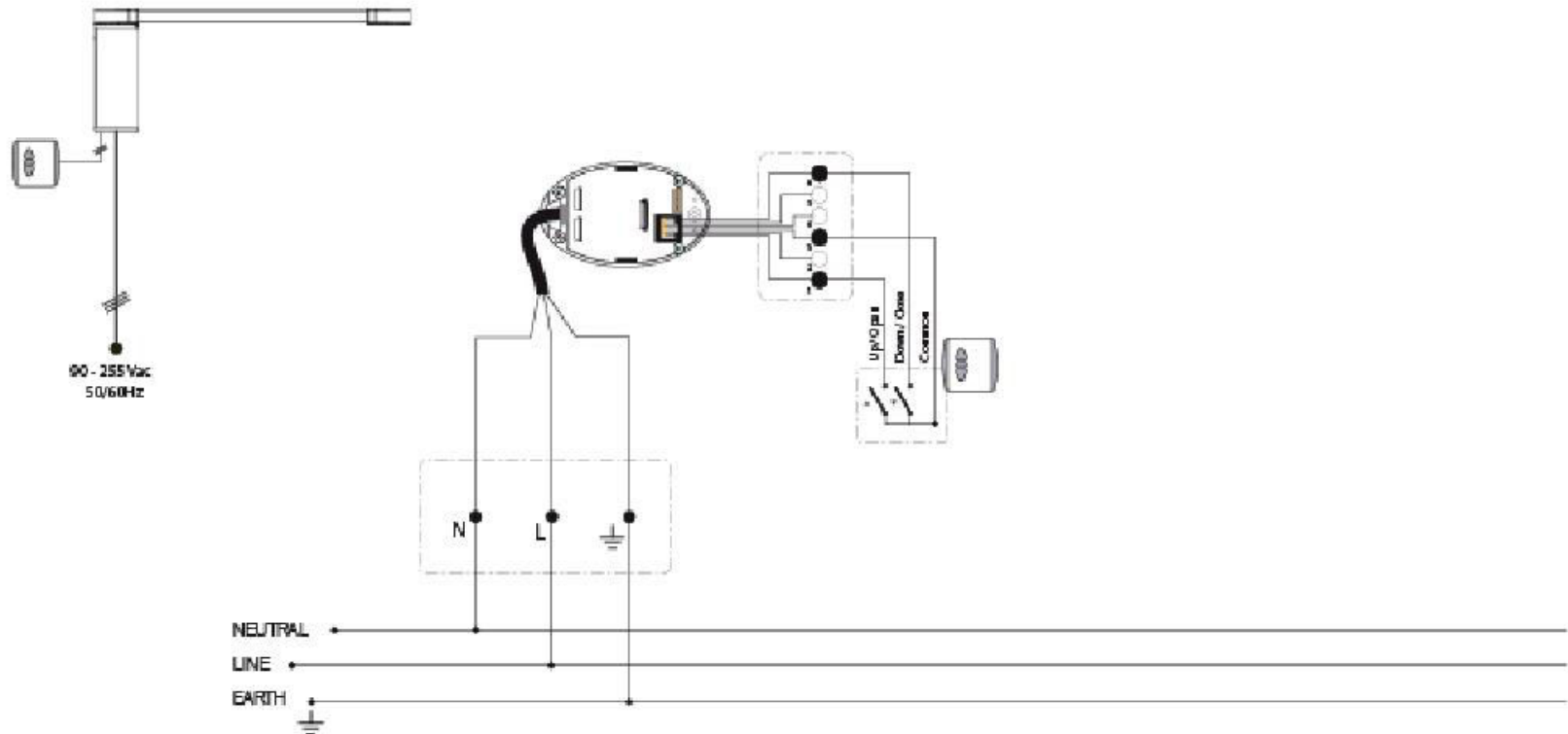
# Dry contact

Dry contact control:

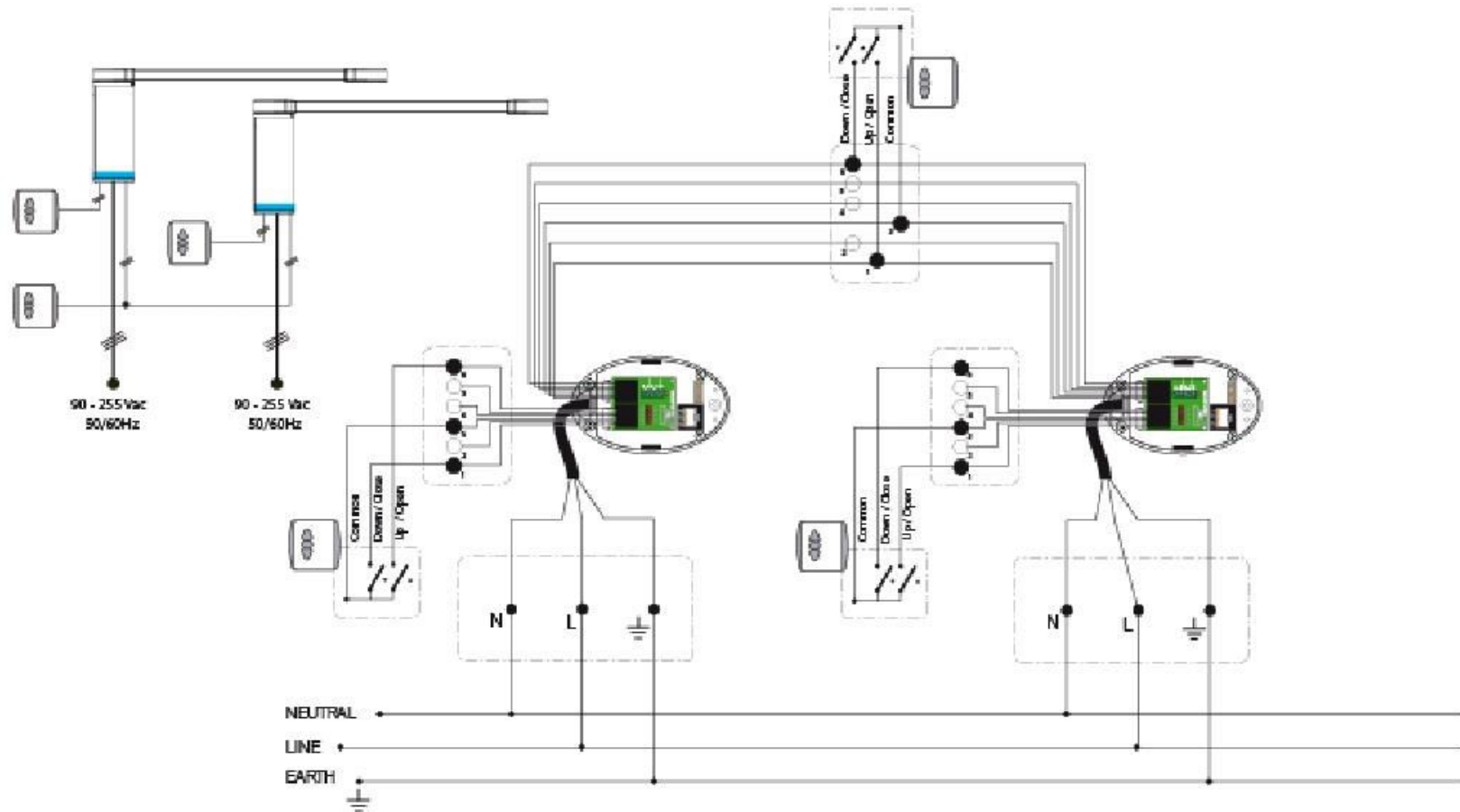
- two contacts (open - close) ,
- three contacts (open, stop and close).

If there are only two control contacts, then stop function is executed as simultaneous activation of the open and close contact.

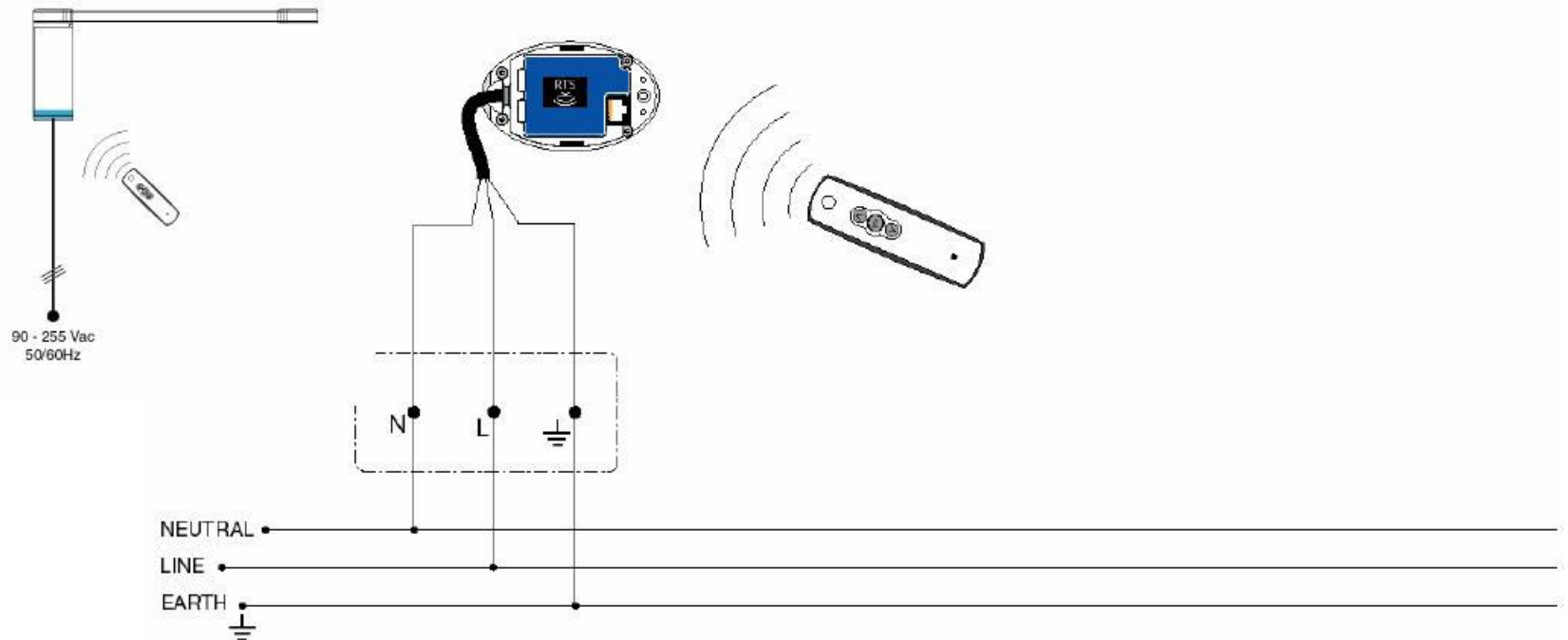
# Individual control 230V Dry Contact (DCT)



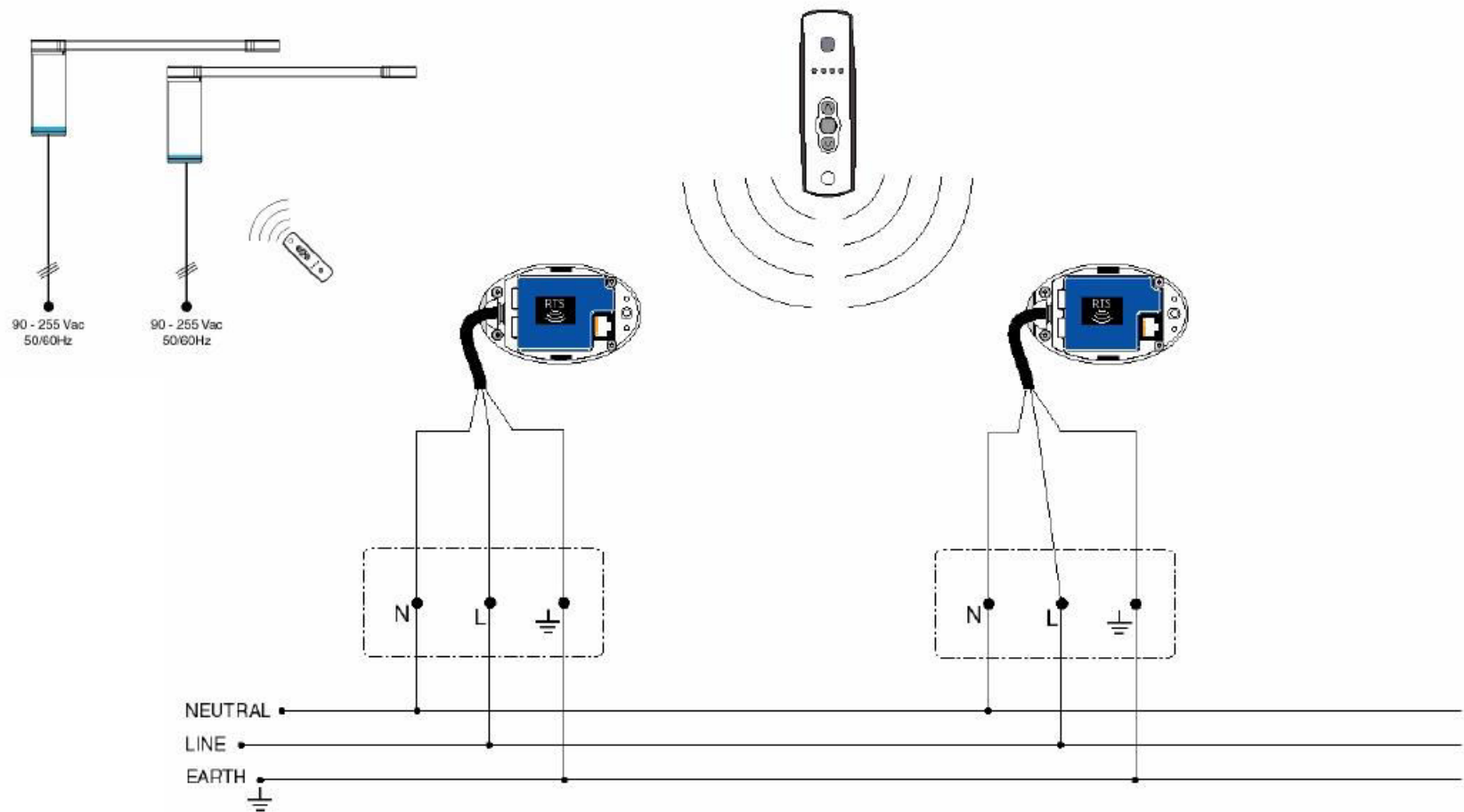
# Group control 230V Dry Contact (DCT)



# Individual radio control RTS

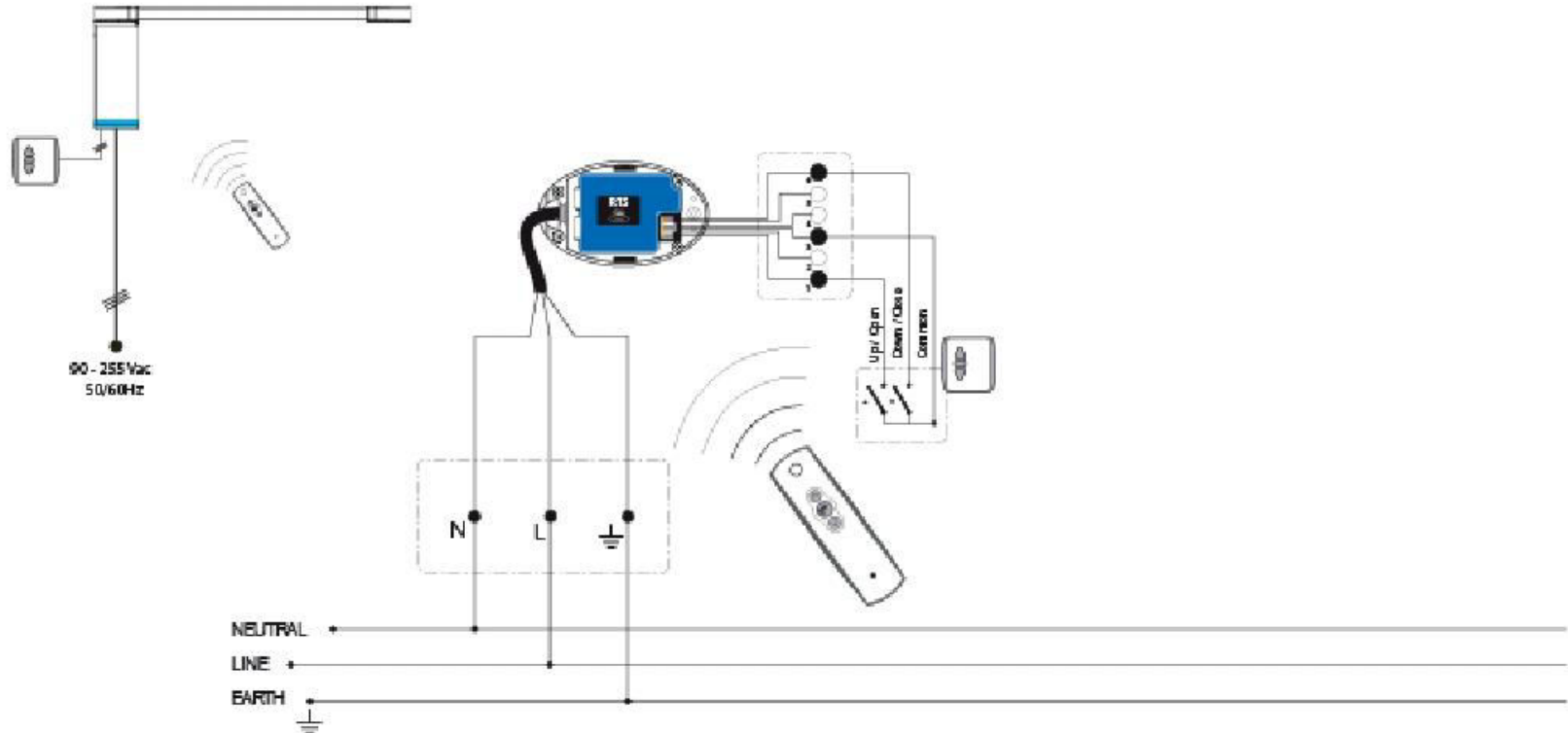


# Group radio control RTS

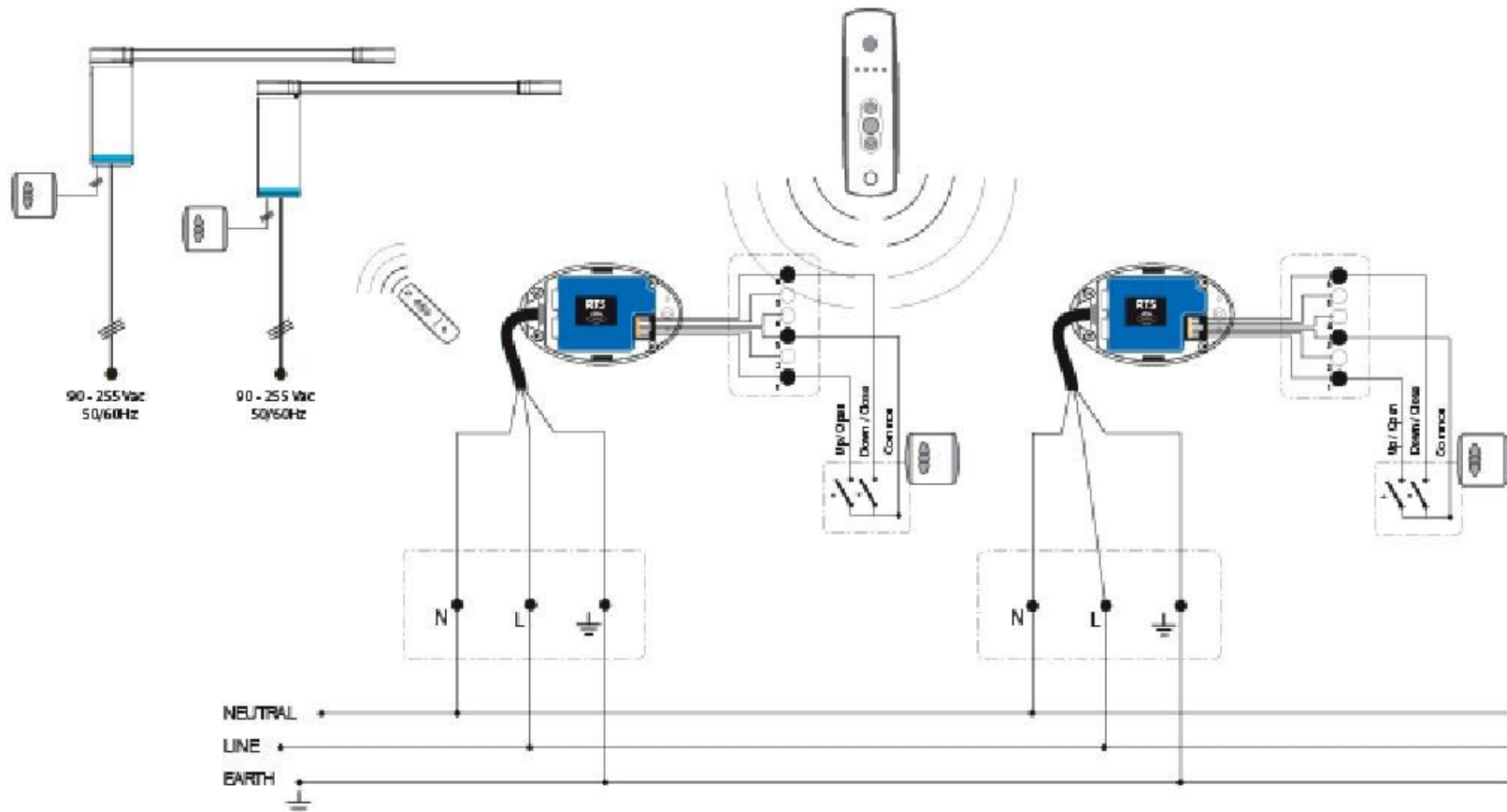




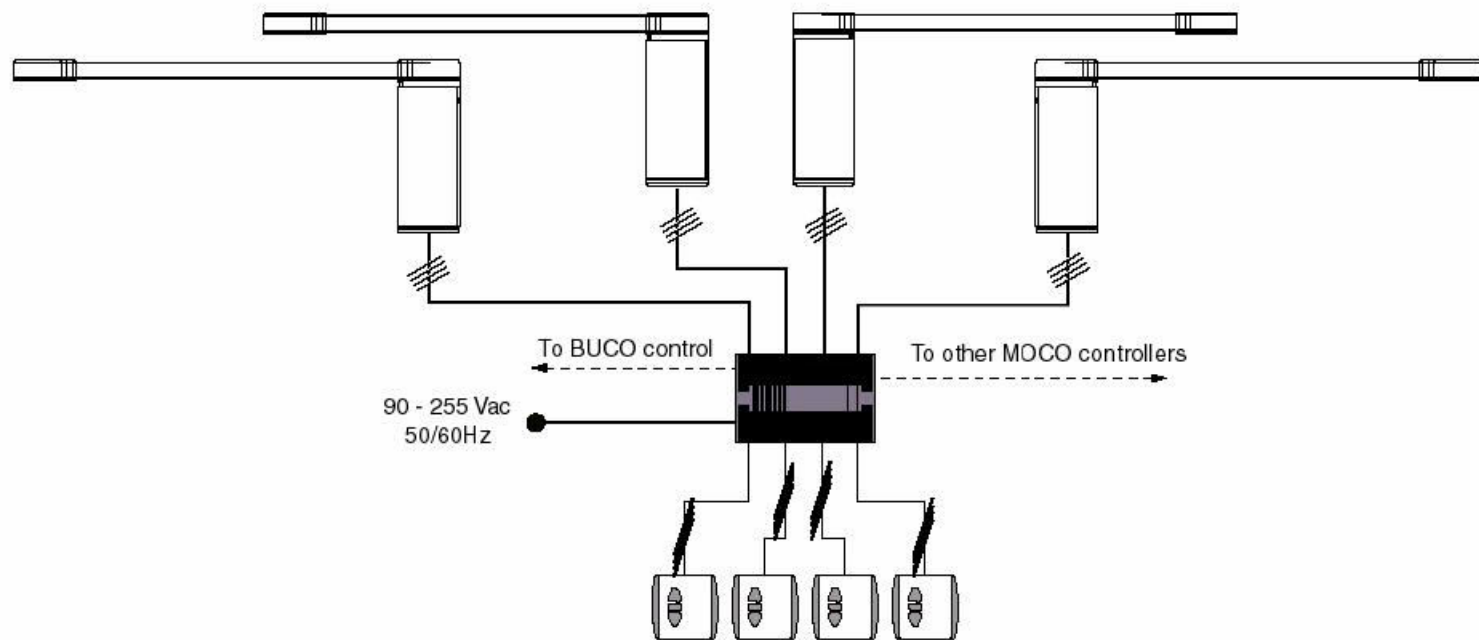
# Individual radio control + dry contact



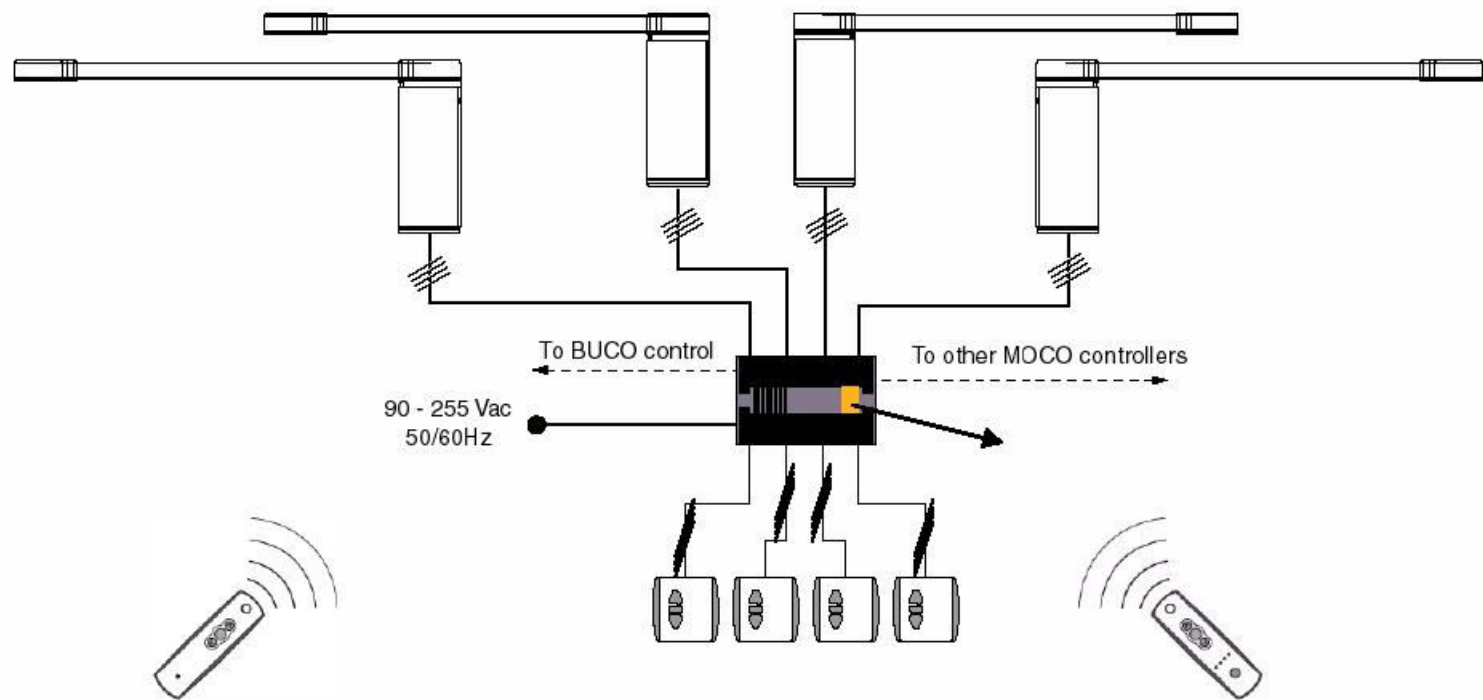
# Group radio control + dry contact



# Group control BuCo/MoCo + dry contact



# Group control BuCo/MoCo + radio control RTS + dry contact



# Fibaro control

- **Roller Shutter 2**

Without Touch-Motion!

Wires:

Black – phase I

Bronze – phase II

Blue – neutral

Yellow-green - ground



# Fibaro control

- On/Off 2x1,5kW

Available Touch-Motion!

Wires:

Black – phase I

Blue – neutral

Yellow-green - ground

